



PeopleSoft EnterpriseOne Engineer to Order 8.11 PeopleBook

November 2004

PeopleSoft EnterpriseOne Engineer to Order 8.11 PeopleBook

SKU E1_FMS8.11AEO-B 1104

Copyright © 2004 PeopleSoft, Inc. All rights reserved.

All material contained in this documentation is proprietary and confidential to PeopleSoft, Inc. ("PeopleSoft"), protected by copyright laws and subject to the nondisclosure provisions of the applicable PeopleSoft agreement. No part of this documentation may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, including, but not limited to, electronic, graphic, mechanical, photocopying, recording, or otherwise without the prior written permission of PeopleSoft.

This documentation is subject to change without notice, and PeopleSoft does not warrant that the material contained in this documentation is free of errors. Any errors found in this document should be reported to PeopleSoft in writing.

The copyrighted software that accompanies this document is licensed for use only in strict accordance with the applicable license agreement which should be read carefully as it governs the terms of use of the software and this document, including the disclosure thereof.

PeopleSoft, PeopleTools, PS/nVision, PeopleCode, PeopleBooks, PeopleTalk, and Vantive are registered trademarks, and Pure Internet Architecture, Intelligent Context Manager, and The Real-Time Enterprise are trademarks of PeopleSoft, Inc. All other company and product names may be trademarks of their respective owners. The information contained herein is subject to change without notice.

Open Source Disclosure

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>). Copyright (c) 1999-2000 The Apache Software Foundation. All rights reserved. THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

PeopleSoft takes no responsibility for its use or distribution of any open source or shareware software or documentation and disclaims any and all liability or damages resulting from use of said software or documentation.

Contents

General Preface

About This PeopleBook Preface	ix
PeopleSoft Application Prerequisites.....	ix
PeopleSoft Application Fundamentals.....	ix
Documentation Updates and Printed Documentation.....	x
Obtaining Documentation Updates.....	x
Ordering Printed Documentation.....	x
Additional Resources.....	xi
Typographical Conventions and Visual Cues.....	xii
Typographical Conventions.....	xii
Visual Cues.....	xiii
Country, Region, and Industry Identifiers.....	xiii
Currency Codes.....	xiv
Comments and Suggestions.....	xiv
Common Elements Used in PeopleBooks	xiv

Preface

PeopleSoft EnterpriseOne Engineer to Order Preface.....	xvii
PeopleSoft Application Fundamentals	xvii
Pages With Deferred Processing.....	xvii
About These PeopleBooks	xviii
Common Elements used in This PeopleBook	xviii

Chapter 1

Getting Started with PeopleSoft EnterpriseOne Engineer to Order.....	1
Engineer to Order Overview.....	1
Engineer to Order Integrations.....	1
Engineer to Order Implementation.....	3
Global Implementation Steps.....	3
Engineer To Order Implementation Steps.....	4

Chapter 2

Understanding Engineer to Order.....	7
PeopleSoft EnterpriseOne Engineer to Order System.....	7
Project Life Cycle.....	8
Engineer to Order System Features.....	9
System Integration.....	10
Engineer to Order Tables.....	12

Chapter 3

Setting Up Engineer to Order.....	15
Understanding Engineer to Order Setup.....	15
Understanding Task Types for ETO Projects.....	15
Understanding Project-Specific Material.....	16
Understanding Line Type and Line Type Constants for ETO.....	16
Setting Up Cost and Account Classifications.....	17
Understanding Cost and Account Classifications.....	17
Forms Used to Set Up Cost and Account Classifications.....	18
Setting Processing Options for Cost Classification (P31P301).....	18
Setting Up Cost Classifications.....	18
Setting Up Account Classifications.....	19
Setting Up User Defined Codes for ETO.....	20
Setting Up Job Cost Integration.....	21
Understanding Job Cost Integration.....	21
Prerequisite.....	22
Forms Used to Set Up Job Cost Integration.....	22
Adding a Chart of Accounts for a Project.....	23
Integrating ETO with Microsoft Project.....	23
Understanding the ETO Export and Import Process.....	23
Form Used to Integrate ETO with Microsoft Project.....	24
Setting Processing Options for Export to MS-Project (R31P404) and Import from MS-Project (R31P801).....	24
Exporting ETO Project Information to Microsoft Project.....	24
Importing ETO Project Information from Microsoft Project.....	25

Chapter 4

Setting Up the Project Initiation.....	27
Understanding the Project Initiation Process.....	27
Creating Projects.....	27

Understanding the Project Workbench Program.....	28
Prerequisites.....	29
Forms Used to Create Projects.....	30
Setting Processing Options for Project Workbench (P31P001).....	30
Creating Projects.....	35
Working with Project Tasks.....	40
Understanding Project Tasks.....	40
Forms Used to Work with Project Tasks.....	42
Adding Project Tasks.....	43
Scheduling Project Tasks.....	44
Understanding Project Task Scheduling.....	44
Understanding Resource and Task Assignments.....	45
Understanding Estimated and Planned Costs.....	45
Prerequisites.....	46
Forms Used to Schedule Project Tasks and Assign Estimated and Planned Costs.....	47
Scheduling Project Tasks.....	47
Generating Quotes and Proposals.....	48
Understanding Quotes and Proposal Generation Process.....	48
Understanding Online Quotes and Proposals.....	50
Prerequisites.....	50
Forms Used to Generate Quotes and Proposals.....	51
Setting Processing Options for Project Quotes (P31P100).....	51
Creating a Quote for a Project.....	53
Generating a Sales Quote.....	54

Chapter 5

Using Project Planning with Engineer to Order.....	57
Understanding Project Planning with ETO.....	57
Prerequisite.....	58
Loading Project Budgets to the Job Cost Budget.....	58
Understanding the Upload to Job Cost Budget Process.....	58
Running the Upload Job Cost Budgets Program (R31P800).....	58
Setting Processing Options for Upload Job Cost Budgets (R31P800).....	58
Using Project Requirements Planning.....	60
Understanding Project Requirements Planning.....	61
Prerequisites.....	63
Forms Used to Generate Project Requirements Plans.....	64
Generating a Multiplant Requirements Plan for Projects.....	64
Reviewing Replenishment Orders for Multiplant PRP.....	64

Processing Messages for a Multiplant PRP.....	65
Reviewing Supply and Demand for Multiplant PRP.....	66
Planning and Scheduling.....	67
Creating Orders for a Project.....	67
Understanding Creating Orders for a Project.....	67
Forms Used to Create Orders for a Project.....	72
Entering a Purchase Order for Project Material.....	72
Entering Purchase Order Information Using the Project Workbench.....	73
Creating Related Orders for a Project.....	73
Revising a Related Order for a Project.....	74
Setting Processing Options for the Related Orders Program (P31P204).....	74
Running the Update Related Order Costs Program.....	75
Attaching an Existing Work Order to a Project.....	75
Setting Up Project Commitments.....	75
Understanding Project Commitments.....	76
Forms Used to Review Commitments.....	78
Reviewing Inventory Commitments for Project Work Orders.....	78
Running the Commitment Rebuild Program (R31P993).....	79
Setting Processing Options for the Commitment Rebuild Program (R31P993).....	79

Chapter 6

Using Project Execution and Control.....	81
Understanding Project Execution and Control.....	81
Prerequisite.....	83
Rolling Up Actual Costs to the Project Workbench.....	84
Prerequisite.....	84
Project Reports and Alerts.....	84
Understanding Project Reports and Alerts.....	85
Setting Processing Options for Project Schedule Report (R31P400).....	85
Setting Processing Options for Project Cost Report (R31P401).....	86
Setting Processing Options for Project Inventory Report (R31P402).....	87

Chapter 7

Closing a Project.....	89
Understanding the Project Close Process.....	89
Running the Project Close Analyzer Program.....	89

Glossary of PeopleSoft Terms.....91

Index 101

About This PeopleBook Preface

PeopleBooks provide you with the information that you need to implement and use PeopleSoft applications.

This preface discusses:

- PeopleSoft application prerequisites.
- PeopleSoft application fundamentals.
- Documentation updates and printed documentation.
- Additional resources.
- Typographical conventions and visual cues.
- Comments and suggestions.
- Common elements in PeopleBooks.

Note. PeopleBooks document only page elements, such as fields and check boxes, that require additional explanation. If a page element is not documented with the process or task in which it is used, then either it requires no additional explanation or it is documented with common elements for the section, chapter, PeopleBook, or product line. Elements that are common to all PeopleSoft applications are defined in this preface.

PeopleSoft Application Prerequisites

To benefit fully from the information that is covered in these books, you should have a basic understanding of how to use PeopleSoft applications.

You might also want to complete at least one PeopleSoft introductory training course, if applicable.

You should be familiar with navigating the system and adding, updating, and deleting information by using PeopleSoft menus, and pages, forms, or windows. You should also be comfortable using the World Wide Web and the Microsoft Windows or Windows NT graphical user interface.

These books do not review navigation and other basics. They present the information that you need to use the system and implement your PeopleSoft applications most effectively.

PeopleSoft Application Fundamentals

Each application PeopleBook provides implementation and processing information for your PeopleSoft applications. For some applications, additional, essential information describing the setup and design of your system appears in a companion volume of documentation called the application fundamentals PeopleBook. Most PeopleSoft product lines have a version of the application fundamentals PeopleBook. The preface of each PeopleBook identifies the application fundamentals PeopleBooks that are associated with that PeopleBook.

The application fundamentals PeopleBook consists of important topics that apply to many or all PeopleSoft applications across one or more product lines. Whether you are implementing a single application, some combination of applications within the product line, or the entire product line, you should be familiar with the contents of the appropriate application fundamentals PeopleBooks. They provide the starting points for fundamental implementation tasks.

Documentation Updates and Printed Documentation

This section discusses how to:

- Obtain documentation updates.
- Order printed documentation.

Obtaining Documentation Updates

You can find updates and additional documentation for this release, as well as previous releases, on the PeopleSoft Customer Connection website. Through the Documentation section of PeopleSoft Customer Connection, you can download files to add to your PeopleBook Library. You'll find a variety of useful and timely materials, including updates to the full PeopleSoft documentation that is delivered on your PeopleBooks CD-ROM.

Important! Before you upgrade, you must check PeopleSoft Customer Connection for updates to the upgrade instructions. PeopleSoft continually posts updates as the upgrade process is refined.

See Also

PeopleSoft Customer Connection, <https://www.peoplesoft.com/corp/en/login.jsp>

Ordering Printed Documentation

You can order printed, bound volumes of the complete PeopleSoft documentation that is delivered on your PeopleBooks CD-ROM. PeopleSoft makes printed documentation available for each major release shortly after the software is shipped. Customers and partners can order printed PeopleSoft documentation by using any of these methods:

- Web
- Telephone
- Email

Web

From the Documentation section of the PeopleSoft Customer Connection website, access the PeopleBooks Press website under the Ordering PeopleBooks topic. The PeopleBooks Press website is a joint venture between PeopleSoft and MMA Partners, the book print vendor. Use a credit card, money order, cashier's check, or purchase order to place your order.

Telephone

Contact MMA Partners at 877 588 2525.

Email

Send email to MMA Partners at peoplesoftpress@mmapartner.com.

See Also

PeopleSoft Customer Connection, <https://www.peoplesoft.com/corp/en/login.jsp>

Additional Resources

The following resources are located on the PeopleSoft Customer Connection website:

Resource	Navigation
Application maintenance information	Updates + Fixes
Business process diagrams	Support, Documentation, Business Process Maps
Interactive Services Repository	Interactive Services Repository
Hardware and software requirements	Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation & Software, Hardware and Software Requirements
Installation guides	Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation & Software, Installation Guides and Notes
Integration information	Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation and Software, Pre-built Integrations for PeopleSoft Enterprise and PeopleSoft EnterpriseOne Applications
Minimum technical requirements (MTRs) (EnterpriseOne only)	Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms
PeopleBook documentation updates	Support, Documentation, Documentation Updates
PeopleSoft support policy	Support, Support Policy
Prerelease notes	Support, Documentation, Documentation Updates, Category, Prerelease Notes
Product release roadmap	Support, Roadmaps + Schedules
Release notes	Support, Documentation, Documentation Updates, Category, Release Notes
Release value proposition	Support, Documentation, Documentation Updates, Category, Release Value Proposition
Statement of direction	Support, Documentation, Documentation Updates, Category, Statement of Direction

Resource	Navigation
Troubleshooting information	Support, Troubleshooting
Upgrade documentation	Support, Documentation, Upgrade Documentation and Scripts

Typographical Conventions and Visual Cues

This section discusses:

- Typographical conventions.
- Visual cues.
- Country, region, and industry identifiers.
- Currency codes.

Typographical Conventions

This table contains the typographical conventions that are used in PeopleBooks:

Typographical Convention or Visual Cue	Description
Bold	Indicates PeopleCode function names, business function names, event names, system function names, method names, language constructs, and PeopleCode reserved words that must be included literally in the function call.
<i>Italics</i>	Indicates field values, emphasis, and PeopleSoft or other book-length publication titles. In PeopleCode syntax, italic items are placeholders for arguments that your program must supply. We also use italics when we refer to words as words or letters as letters, as in the following: Enter the letter <i>O</i> .
KEY+KEY	Indicates a key combination action. For example, a plus sign (+) between keys means that you must hold down the first key while you press the second key. For ALT+W, hold down the ALT key while you press the W key.
Monospace font	Indicates a PeopleCode program or other code example.
“ ” (quotation marks)	Indicate chapter titles in cross-references and words that are used differently from their intended meanings.

Typographical Convention or Visual Cue	Description
. . . (ellipses)	Indicate that the preceding item or series can be repeated any number of times in PeopleCode syntax.
{ } (curly braces)	Indicate a choice between two options in PeopleCode syntax. Options are separated by a pipe ().
[] (square brackets)	Indicate optional items in PeopleCode syntax.
& (ampersand)	When placed before a parameter in PeopleCode syntax, an ampersand indicates that the parameter is an already instantiated object. Ampersands also precede all PeopleCode variables.

Visual Cues

PeopleBooks contain the following visual cues.

Notes

Notes indicate information that you should pay particular attention to as you work with the PeopleSoft system.

Note. Example of a note.

If the note is preceded by *Important!*, the note is crucial and includes information that concerns what you must do for the system to function properly.

Important! Example of an important note.

Warnings

Warnings indicate crucial configuration considerations. Pay close attention to warning messages.

Warning! Example of a warning.

Cross-References

PeopleBooks provide cross-references either under the heading “See Also” or on a separate line preceded by the word *See*. Cross-references lead to other documentation that is pertinent to the immediately preceding documentation.

Country, Region, and Industry Identifiers

Information that applies only to a specific country, region, or industry is preceded by a standard identifier in parentheses. This identifier typically appears at the beginning of a section heading, but it may also appear at the beginning of a note or other text.

Example of a country-specific heading: “(FRA) Hiring an Employee”

Example of a region-specific heading: “(Latin America) Setting Up Depreciation”

Country Identifiers

Countries are identified with the International Organization for Standardization (ISO) country code.

Region Identifiers

Regions are identified by the region name. The following region identifiers may appear in PeopleBooks:

- Asia Pacific
- Europe
- Latin America
- North America

Industry Identifiers

Industries are identified by the industry name or by an abbreviation for that industry. The following industry identifiers may appear in PeopleBooks:

- USF (U.S. Federal)
- E&G (Education and Government)

Currency Codes

Monetary amounts are identified by the ISO currency code.

Comments and Suggestions

Your comments are important to us. We encourage you to tell us what you like, or what you would like to see changed about PeopleBooks and other PeopleSoft reference and training materials. Please send your suggestions to:

PeopleSoft Product Documentation Manager PeopleSoft, Inc. 4460 Hacienda Drive Pleasanton, CA 94588

Or send email comments to doc@peoplesoft.com.

While we cannot guarantee to answer every email message, we will pay careful attention to your comments and suggestions.

Common Elements Used in PeopleBooks

Address Book Number

Enter a unique number that identifies the master record for the entity. An address book number can be the identifier for a customer, supplier, company, employee, applicant, participant, tenant, location, and so on. Depending on the application, the field on the form might refer to the address book number as the customer number, supplier number, or company number, employee or applicant id, participant number, and so on.

As If Currency Code	Enter the three-character code to specify the currency that you want to use to view transaction amounts. This code allows you to view the transaction amounts as if they were entered in the specified currency rather than the foreign or domestic currency that was used when the transaction was originally entered.
Batch Number	Displays a number that identifies a group of transactions to be processed by the system. On entry forms, you can assign the batch number or the system can assign it through the Next Numbers program (P0002).
Batch Date	Enter the date in which a batch is created. If you leave this field blank, the system supplies the system date as the batch date.
Batch Status	Displays a code from user-defined code (UDC) table 98/IC that indicates the posting status of a batch. Values are: <i>Blank:</i> Batch is unposted and pending approval. <i>A:</i> The batch is approved for posting, has no errors and is in balance, but it has not yet been posted. <i>D:</i> The batch posted successfully. <i>E:</i> The batch is in error. You must correct the batch before it can post. <i>P:</i> The system is in the process of posting the batch. The batch is unavailable until the posting process is complete. If errors occur during the post, the batch status changes to E. <i>U:</i> The batch is temporarily unavailable because someone is working with it, or the batch appears to be in use because a power failure occurred while the batch was open.
Branch/Plant	Enter a code that identifies a separate entity as a warehouse location, job, project, work center, branch, or plant in which distribution and manufacturing activities occur. In some systems, this is called a business unit.
Business Unit	Enter the alphanumeric code that identifies a separate entity within a business for which you want to track costs. In some systems, this is called a branch/plant.
Category Code	Enter the code that represents a specific category code. Category codes are user-defined codes that you customize to handle the tracking and reporting requirements of your organization.
Company	Enter a code that identifies a specific organization, fund, or other reporting entity. The company code must already exist in the F0010 table and must identify a reporting entity that has a complete balance sheet.
Currency Code	Enter the three-character code that represents the currency of the transaction. PeopleSoft EnterpriseOne provides currency codes that are recognized by the International Organization for Standardization (ISO). The system stores currency codes in the F0013 table.
Document Company	Enter the company number associated with the document. This number, used in conjunction with the document number, document type, and general ledger date, uniquely identifies an original document. If you assign next numbers by company and fiscal year, the system uses the document company to retrieve the correct next number for that company.

If two or more original documents have the same document number and document type, you can use the document company to display the document that you want.

Document Number

Displays a number that identifies the original document, which can be a voucher, invoice, journal entry, or time sheet, and so on. On entry forms, you can assign the original document number or the system can assign it through the Next Numbers program.

Document Type

Enter the two-character UDC, from UDC table 00/DT, that identifies the origin and purpose of the transaction, such as a voucher, invoice, journal entry, or time sheet. PeopleSoft EnterpriseOne reserves these prefixes for the document types indicated:

P: Accounts payable documents.

R: Accounts receivable documents.

T: Time and pay documents.

I: Inventory documents.

O: Purchase order documents.

S: Sales order documents.

Effective Date

Enter the date on which an address, item, transaction, or record becomes active. The meaning of this field differs, depending on the program. For example, the effective date can represent any of these dates:

- The date on which a change of address becomes effective.
- The date on which a lease becomes effective.
- The date on which a price becomes effective.
- The date on which the currency exchange rate becomes effective.
- The date on which a tax rate becomes effective.

Fiscal Period and Fiscal Year

Enter a number that identifies the general ledger period and year. For many programs, you can leave these fields blank to use the current fiscal period and year defined in the Company Names & Number program (P0010).

G/L Date (general ledger date)

Enter the date that identifies the financial period to which a transaction will be posted. The system compares the date that you enter on the transaction to the fiscal date pattern assigned to the company to retrieve the appropriate fiscal period number and year, as well as to perform date validations.

PeopleSoft EnterpriseOne Engineer to Order Preface

This preface discusses:

- PeopleSoft Application Fundamentals
- Pages with Deferred Processing.
- Common Elements in this PeopleBook

PeopleSoft Application Fundamentals

The PeopleSoft Engineer to Order PeopleBook provides you with implementation and processing information for the PeopleSoft Engineer to Order system. However, additional, essential information describing the setup and design of the system resides in companion documentation. The companion documentation consists of important topics that apply to many or all PeopleSoft applications across the Financials, Enterprise Service Automation, and Supply Chain Management product lines. You should be familiar with the contents of these PeopleBooks. The following companion PeopleBooks contain information that applies specifically to PeopleSoft Engineer to Order.

- PeopleSoft Inventory Management
- PeopleSoft Product Data Management
- PeopleSoft Shop Floor Management
- PeopleSoft Requirements Planning
- PeopleSoft Job Cost
- PeopleSoft Capital Asset Management
- PeopleSoft Quality Management
- PeopleSoft Sales Order Management
- PeopleSoft Procurement
- PeopleSoft Contract Billing, Service Billing

Pages With Deferred Processing

Several pages in PeopleSoft Engineer to Order operate in deferred processing mode. Most fields on these pages are not updated or validated until you save the page or refresh it by clicking a button, link, or. This delayed processing has various implications for the field values on the page—for example, if a field contains a default value, any value you enter before the system updates the page overrides the default. Another implication is that the system updates quantity balances or totals only when you save or otherwise refresh the page.

About These PeopleBooks

A companion PeopleBook called About These PeopleBooks contains general information, including:

- Related documentation, common page elements, and typographical conventions for PeopleBooks.
 - Information about using PeopleBooks and managing the PeopleBooks Library.
 - A glossary of useful PeopleSoft terms that are used in PeopleBooks.
-

Common Elements used in This PeopleBook

Account Number	A value that identifies an account in the general ledger.
Assigned To	The address book number of the person assigned to do the work.
Branch	A code that represents a high-level business unit.
Branch/Plant	A code that represents a high-level business unit.
Business Unit	The Branch or Plant field provides the default value for the business unit.
Business Unit	If you use Job Cost, the default value for the business unit is the job from the job master record.
Category 02	A user defined code that indicates the type or category of a work order.
Category 10	A user defined code that indicates the type or category of the work order.
Commit After Quote Accept	An option that specifies the stage of the project during which the system commits inventory when it attaches a parts list to a project work order.
Cost Classification	A user-defined code that the system uses to associate cost types or account numbers with cost buckets, such as material costs, labor costs, other costs, or special costs.
Cost Type	A code that designates each element of cost for an item.
Cost Type Desc	A user-defined name or remark.
Customer	A number that identifies an entry in the Address Book system, such as employee, applicant, participant, customer, supplier, tenant, or location.
Distribution List	The address book number of the parent company.
Duration	A value that represents the leadtime for an item at its assigned level in the production process, as defined on Plant Manufacturing Data.
Estimated Labor	The approximate cost of labor associated with a task.
Estimated Material	The approximate cost of materials associated with a task.
Estimated Other	A number that specifies other costs for the estimated cost category within EPM. EPM uses four cost categories: estimated, planned, budgeted, and actual.

Estimated Special Amount	The approximate amount of special costs associated with a task prior to quote acceptance.
Estimated Special Units	The approximate number of special units associated with a task prior to quote acceptance.
Experience Level	A user defined code that indicates the type or category of the work order.
Freeze Code	A code that indicates if the line on the order is frozen. MPS/MRP does not suggest changes to frozen orders.
Interface to Job Cost	A code that notifies the system to create an interface between the EPM project and Job Cost.
Item Number	A number that the system assigns to an item. It can be in short, long, or third item number format.
Labor	This is the estimated labor cost of a work order.
Manager	The address book number of a manager or planner.
Material	This is the estimated material cost of a work order.
Or Ty (Order Type)	This field and the Description field represent the minimum information that is required to create a project task.
Order Type	A user defined code that identifies the type of document.
Organization Structure Type	A user defined code that identifies a type of organizational structure that has its own hierarchy in the Address Book system (for example, email).
Other	Amount - Estimated Other.
Override Estimates Flag	A flag that is used to specify whether the system enables the estimated cost to be overridden with the planned cost when you attach a parts list and routing to the order.
Phase	A user defined code that indicates the current stage or phase of development for a work order. You can assign a work order to only one phase code at a time.
Planned End	The date that an item is scheduled to arrive or that an action is scheduled for completion.
Planned Start	This field identifies the start date of either the work order or the routing instructions.
Priority	A user defined code that indicates the relative priority of a work order or engineering change order in relation to other orders.
Project GL Class Code	A user defined code that identifies the GL offset account that the system uses when it uploads budgets, commitments, and actuals into project accounts.
Project Number	A number that identifies an ETO project in the system.
Quantity	The quantity of units affected by this transaction.
Require Activity Code	A flag that can be turned on to enable for the optional entry of activity codes.
Service Type	A user defined code that indicates the service type for the work order.

Ship This Phase	An option that specifies whether the system can generate a sales order line for a project task. Project Requirements Planning uses this value to explode project-specific requirements.
Skill Type	A user defined code that indicates the type or category of the work order.
Special Amount	The approximate amount of special costs associated with a task prior to quote acceptance.
Special Units	The approximate number of special units associated with a task prior to quote acceptance.
Status	A user defined code that discusses the status of a work order, rate schedule, or engineering change order.
Status	A user defined code that indicates the status of the work order.
Sub (Subsidiary)	The subsidiary information on the work breakdown structure relates to the cost codes for the chart of account in Job Cost.
Subsidiary	A subset of an object account. Subsidiary accounts include detailed records of the accounting activity for an object account.
Supervisor	The address book number of the supervisor.
Type	A user defined code that indicates the classification of a work order or engineering change order.
U/M	A user defined code that indicates the quantity in which to express an inventory item, for example, CS (case) or BX (box).

CHAPTER 1

Getting Started with PeopleSoft EnterpriseOne Engineer to Order

This chapter discusses:

- Engineer to Order overview
- Engineer to Order integrations
- Engineer to Order implementations

Engineer to Order Overview

PeopleSoft EnterpriseOne Engineer to Order (ETO) enables companies whose business consists of engineer-to-order and make-to-order projects to increase the profitability of the projects that they run, improve efficiency, and leverage relevant data that they already possess. The Engineer-to-Order system accomplishes these goals by enabling you to perform the following tasks:

- Review and track detail information about projects
- Schedule project tasks
- Review up-to-date costing information

Engineer to Order Integrations

The information in the following section provides an overview of the features from other systems that support Engineer to Order:

Inventory Management

You can use Inventory Management to define inventory items. This information enables you to work with inventory throughout the supply chain. You can define items as project-specific to distinguish them from general inventory.

Product Data Management

You can use Product Data Management to set up manufacturing information that you need for completing manufacturing project tasks. Examples of this information include:

- Bills of material
- Work centers

- Routings
- Product costing information
- Engineering change management

Product Data Management is also the system that you use to manage critical information for capacity and material planning.

Shop Floor Management

You can use Shop Floor Management to process the manufacturing work orders that you created for the project, issue material, complete work orders, and report the time and effort required to produce a project item.

Requirements Planning

You can use these systems to determine information about on hand inventory quantities and demand that is current, and you can forecast for the following:

- Product sales or replacement parts
- Interbranch inventory needs
- Parts requirements for equipment and plant maintenance
- Incoming item availability from purchase orders or shop floor production

Job Cost

You can use Job Cost to manage your project and jobs, and to monitor the costs and revenues that are associated with them. You can use the Job Cost system to perform the following tasks:

- Create and maintain cost code structures for all of your jobs
- Create a cost breakdown structure (CBS) to match the work breakdown structure
- Establish budgets for your jobs
- Set up time schedules for the tasks in your jobs
- Track and manage the costs and revenues that are associated with your projects and jobs
- Perform profitability analysis
- Use contract and service billing
- Use change management

Capital Asset Management

You can use Capital Asset Management to maintain and service equipment. This system helps you reduce downtime and repair costs, increase productivity, and improve product quality. You can track the revenue, cost, and utilization of your assets, and you can use workflow alerts to plan and resolve issues before they become emergencies.

Quality Management

You can use Quality Management to enter and manage data that relates to the material quality of the items that you produce as part of the project. You can record quality test results in a consistent, controlled manner and monitor production processes to ensure product quality.

Sales Order Management

You can use Sales Order Management to track the following information:

- Extensive user-defined information
- Recurring orders and order templates
- Customer and item preference profiles
- Online inventory availability and available-to-promise information
- Comprehensive tracking information about orders and line status

Procurement

You can use the Procurement system to track a diverse range of purchasing activities for the following:

- Replenishing inventory
- Acquiring materials used to complete projects
- Charging purchased goods and services to specific departments, jobs, or cost centers

Contract Billing, Service Billing

If you use Job Cost for engineer-to-order projects, you can also use the Contract Billing and Service Billing systems to bill customers for services and goods rendered as part of the project. Both systems offer a suite of features to accommodate interdivisional and customer billing. You can use the Contract and Service Billing systems to do the following:

- Account for the costs of goods and services
- Mark up the costs to account for profit
- Bill for the services and goods that you provide
- Provide written proof that justifies the charges
- Create accounting entries for the services and goods

Engineer to Order Implementation

This section provides an overview of the steps that are required to implement Engineer to Order.

In the planning phase of your implementation, take advantage of all PeopleSoft sources of information, including the installation guides and troubleshooting information. A complete list of these resources appears in the preface in *About These PeopleBooks* with information about where to find the most current version of each.

Global Implementation Steps

This table lists the suggested implementation steps for the PeopleSoft EnterpriseOne Configurator.

Step	Reference
1. Set up global user defined code tables.	<i>PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook</i> , “Setting Up Product Data Management,” Defining Document Type Constants for Work Orders
2. Set up fiscal date patterns, companies, and business units.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , “Setting Up an Organization”
3. Set up system next numbers.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , “Setting Up System Next Numbers”
4. Set up accounts.	<i>PeopleSoft EnterpriseOne Financial Management Solutions Application Fundamentals 8.11 PeopleBook</i> , “Setting Up Accounts”
5. Set up general accounting constants.	<i>PeopleSoft EnterpriseOne General Accounting 8.11 PeopleBook</i> , “Setting Up the General Accounting System,” Setting Up Constants for General Accounting
6. Set up multicounty processing, including currency codes and exchange rates.	<i>PeopleSoft EnterpriseOne Multicurrency Processing 8.11 PeopleBook</i> , “Setting Up General Accounting for Multicurrency Processing”
7. Set up ledger type rules.	<i>PeopleSoft EnterpriseOne General Accounting 8.11 PeopleBook</i> , “Setting Up the General Accounting System,” Setting Up Ledger Types for General Accounting
8. Enter address book records.	<i>PeopleSoft EnterpriseOne Address Book 8.11 PeopleBook</i> , “Entering Address Book Records”
9. Set up default location and printers.	PeopleSoft EnterpriseOne Tools 8.94: Foundation PeopleBook
10. Set up branch/plant constants.	<i>PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook</i> , “Entering Item Inventory Information,” Entering Branch/Plant Information
11. Set up manufacturing and distribution AAIs.	<i>PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook</i> , “Setting Up the Inventory Management System,” Setting Up AAIs in Distribution Systems
12. Set up document types.	<i>PeopleSoft EnterpriseOne Inventory Management 8.11 PeopleBook</i> , “Setting Up the Inventory Management System,” Setting Up Document Type Information
13. Set up shop floor calendars.	<i>PeopleSoft EnterpriseOne Shop Floor Management 8.11 PeopleBook</i> , “Setting Up Shop Floor Management,” Setting Up a Shop Floor Calendar
14. Set up manufacturing constants.	<i>PeopleSoft EnterpriseOne Product Data Management 8.11 PeopleBook</i> , “Setting Up Product Data Management,” Setting Up Manufacturing Constants

Engineer To Order Implementation Steps

This table list the implementation steps for Engineer to Order.

Step	Reference
1. Set up Engineer to Order	Chapter 3, “Setting Up Engineer to Order,” page 15
2. Set up Project Initiation	Chapter 4, “Setting Up the Project Initiation,” page 27
3. Set up Project Planning	Chapter 4, “Setting Up the Project Initiation,” page 27
4. Set up Project Execution and Control	Chapter 6, “Using Project Execution and Control,” page 81
5. Set up Project Close	Chapter 7, “Closing a Project,” page 89

CHAPTER 2

Understanding Engineer to Order

This chapter provides overviews of the following:

- PeopleSoft EnterpriseOne Engineer to Order system.
- Project life cycle.
- Engineer to Order system features.
- System integration.
- Engineer to Order Tables

PeopleSoft EnterpriseOne Engineer to Order System

PeopleSoft EnterpriseOne Engineer to Order (ETO) enables companies whose business consists of engineer-to-order and make-to-order projects to increase the profitability of the projects that they run, improve efficiency, and leverage relevant data that they already possess. The Engineer-to-Order system accomplishes these goals by enabling you to perform the following tasks:

- Review and track detail information about projects
- Schedule project tasks
- Review up-to-date costing information

In addition, ETO is fully integrated with the supply chain execution applications for efficient project execution.

ETO functions in the context of generally accepted project management practices and strategies. The system provides information and mechanisms to move a project through the following four phases that are commonly associated with projects:

- Project initiation
- Project planning
- Project execution
- Project close

Project Initiation Phase

During the project initiation phase, you analyze the request for a quote sent in by the customer, estimate the scope of the project, and define project information, such as work breakdown structure, task schedules, estimated cost, and so on, that is sufficient to provide the customer with a quote.

Project Planning Phase

During the project planning phase, which begins after the customer accepts the quote, you refine the project scope, as well as the task, schedule, resource, and financial information that is associated with the project. For example, you assign resources to tasks and perform financial and inventory commitments to fulfill work order requirements. At the end of the planning phase, you establish the project baseline. After this phase, you use change management to implement any necessary changes to the project.

Project Execution Phase

After you complete the planning and freeze the work breakdown structure, as well as the budgeted amounts, the project moves into the execution and control phase. In this phase, you complete the scheduled project tasks and measure project progress and performance in order to be able to take corrective action if the project does not progress as planned.

Project Close Phase

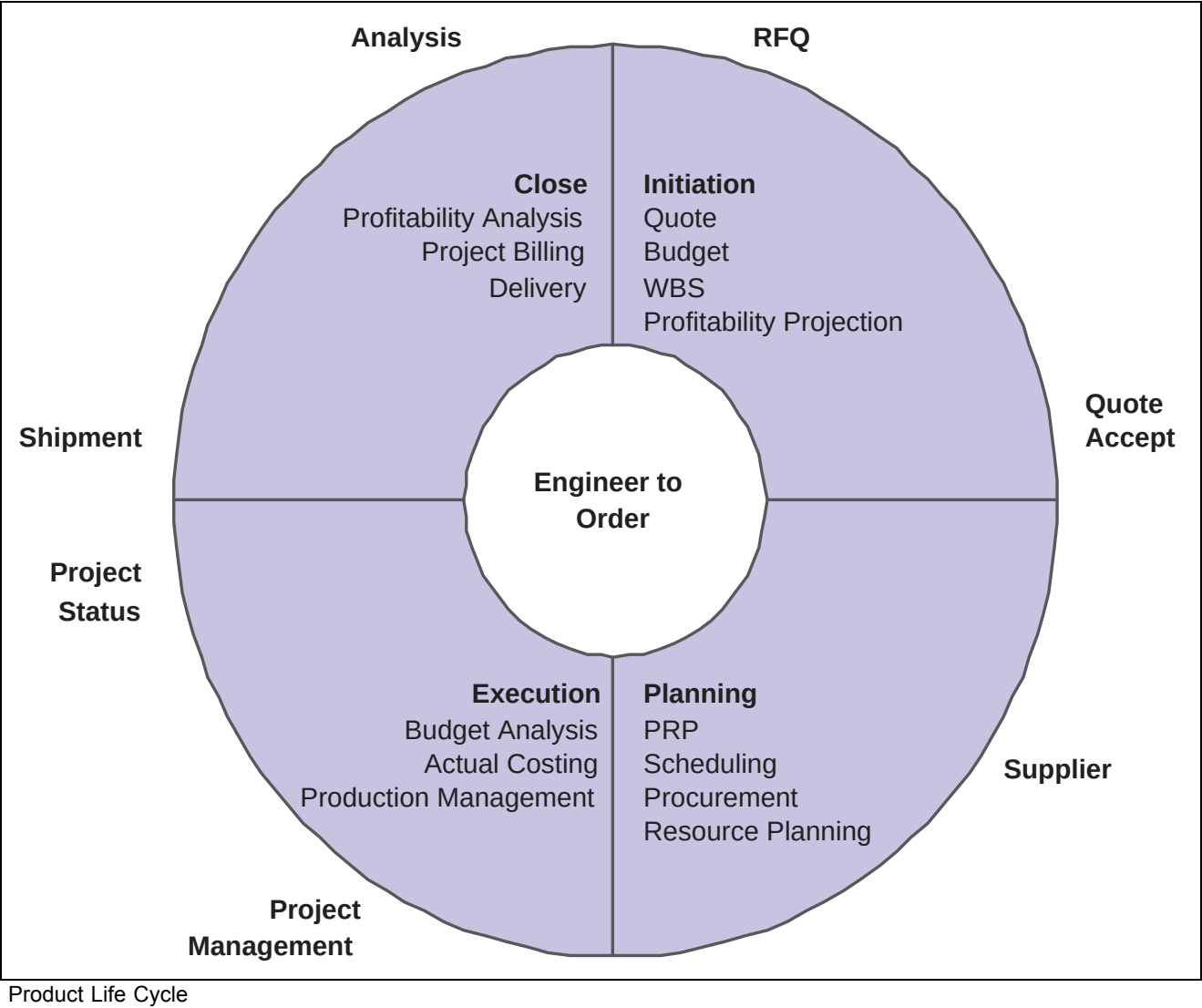
The project close phase consists of close-out activities that are related to tasks and product shipments, asset capitalization, and final reporting.

To complete all of the tasks and activities that are associated with a make-to-order or engineer-to-order project, the ETO system integrates with a number of PeopleSoft EnterpriseOne products that execute and manage those activities.

Note. Information about the PeopleSoft EnterpriseOne systems with which the Engineer-to-Order system integrates is described in detail in the product guides for those systems, such as the Shop Floor Management Guide, the Product Costing and Manufacturing Accounting Guide, the Job Cost Guide, and so on.

Project Life Cycle

The following graphic provides an overview of the different stages that a project typically goes through:



Engineer to Order System Features

To help you create and execute large-scale projects, Engineer to Order provides the following features, which enable you to complete the different tasks involved in managing a project:

Feature	Description
Project costing and budgeting	You can create and maintain cost amounts for projects that are created and initiated. Cost estimates are uploaded to the budgeted amount for a project when a quote is accepted. You can also set up budgets for projects to track cost overages.

Feature	Description
Project quotes	You can formulate a quote to send to prospective customers, providing an estimate of the price for the item or series of items for which the customer has requested a quote.
Project proposals	You can create documentation pertaining to the product that has been requested, and the customer can review the documentation.
Project materials plan	You can suggest ordering requirements for project materials and give visibility to the supply and demand created by the project's activities.
Project schedules and reports	You can develop and maintain a timeline within which all project activities can be tracked for on-time delivery of the end item for the project.
Project alerts	You can provide alerts to the project manager when a project is not meeting scheduling requirements.

System Integration

To ensure that you use Engineer to Order effectively, you must thoroughly understand the features provided by the systems listed in the following table:

System	Description
Inventory Management	You can use Inventory Management to define inventory items. This information enables you to work with inventory throughout the supply chain. You can define items as project-specific to distinguish them from general inventory.
Product Data Management	You can use Product Data Management to set up manufacturing information that you need for completing manufacturing project tasks. Examples of this information include: • Bills of material • Work centers • Routings • Product costing information • Engineering change management Product Data Management is also the system that you use to manage critical information for capacity and material planning.

System	Description
Shop Floor Management	You can use Shop Floor Management to process the manufacturing work orders that you created for the project, issue material, complete work orders, and report the time and effort required to produce a project item.
Requirements Planning	You can use these systems to determine information about on-hand inventory quantities and demand that is current, and you can forecast for the following: • Product sales or replacement parts • Interbranch inventory needs • Parts requirements for equipment and plant maintenance • Incoming item availability from purchase orders or shop floor production
Job Cost	You can use Job Cost to manage your project and jobs, and to monitor the costs and revenues that are associated with them. You can use the Job Cost system to perform the following tasks: • Create and maintain cost code structures for all of your jobs • Create a cost breakdown structure (CBS) to match the work breakdown structure • Establish budgets for your jobs • Set up time schedules for the tasks in your jobs • Track and manage the costs and revenues that are associated with your projects and jobs • Perform profitability analysis • Use contract and service billing • Use change management
Capital Asset Management	You can use Capital Asset Management to maintain and service equipment. This system helps you reduce downtime and repair costs, increase productivity, and improve product quality. You can track the revenue, cost, and utilization of your assets, and you can use workflow alerts to plan and resolve issues before they become emergencies.
Quality Management	You can use Quality Management to enter and manage data that relates to the material quality of the items that you produce as part of the project. You can record quality test results in a consistent, controlled manner and monitor production processes to ensure product quality.

System	Description
Sales Order Management	You can use Sales Order Management to track the following information: • Extensive user-defined information • Recurring orders and order templates • Customer and item preference profiles • Online inventory availability and available-to-promise information • Comprehensive tracking information about orders and line status
Procurement	You can use Procurement to track a diverse range of purchasing activities for the following: • Replenishing inventory • Acquiring materials used to complete projects • Charging purchased goods and services to specific departments, jobs, or cost centers
Contract Billing, Service Billing	If you use Job Cost for engineer-to-order projects, you can also use the Contract Billing and Service Billing systems to bill customers for services and goods rendered as part of the project. Both systems offer a suite of features to accommodate interdivisional and customer billing. You can use the Contract and Service Billing systems to do the following: • Account for the costs of goods and services • Mark up the costs to account for profit • Bill for the services and goods that you provide • Provide written proof that justifies the charges • Create accounting entries for the services and goods

Engineer to Order Tables

Because Engineer to Order integrates with many PeopleSoft EnterpriseOne systems, you use theles in these other systems when you create and work with ETO. For example, you use the Work Order Master File Table (F4801) to store project header and task information. In addition, you also store project information in the following tables, which are specific to the ETO system:

Table	Description
Project Attributes (F31P01)	This table stores information entered for the project header, such as status information and the processing settings for a project
Project Quote Header (F31P10)	This table stores the header information for the quote related to the project, such as the version and the number of the customer for whom the quote is created.
Project Quote Detail (F31P11)	This table stores the detail lines from the work breakdown structure that you chose to include in the quote, together with the margin percent value and quote amount for each line.
Task Dependencies (F31P12)	This table stores the task dependencies that you establish between the tasks on the work breakdown structure, including the lag time between tasks.
Cost Classificationle (F31P21)	This table stores the cost type and account mappings that are required to correctly roll up cost information for a project.
Project Commitment Detaille (F410211)	This table stores project-specific inventory commitments. These records are deleted when the commitment is relieved.
Related Order Cross Referencele (F4080)	This table stores order information that the system uses to link the project descriptive task to the related orders. This table contains the descriptive task order number and order type, and detail information from the related orders, such as document type, extended costs, and order status.

CHAPTER 3

Setting Up Engineer to Order

This chapter provides an overview of the Engineer to Order (ETO) system setup and discusses how to:

- Set up cost and account classifications.
- Set up user defined codes for ETO
- Set up Job Cost integration.
- Integrate ETO with Microsoft Project.

Understanding Engineer to Order Setup

To use Engineer to Order, you need to set up information that the system needs to process various project components correctly. ETO setup includes user-defined codes and other required information, such as document type constants. To be able to roll up project costs correctly, you also need to set up project-specific items, as well as a cost classification scheme.

If you use features of the Job Cost system for a project, you also need to create job master and chart of account information for the project.

To facilitate project communication with individuals who do not have access to the Project Workbench program (P31P001), you can set up a process for exporting project information to Microsoft Project.

This section provides overviews of the following:

- Task Types for ETO Projects
- Project-specific material.
- Line type and line type constants for ETO.

See Also

Defining Document Type Constants for Work Orders in the Product Data Management Guide

Understanding Task Types for ETO Projects

Engineer to Order enables you to use several different tasks types as part of the work breakdown structure. Each task type represents a different type of activity related to the project that might require different actions on the part of the project manager and responsible project employees. You can use only task types that are set up in the Document Type Maintenance program (P40040).

ETO includes two categories of tasks: production and nonproduction tasks. Nonproduction tasks include summary or detail tasks, equipment orders, and service orders. Production tasks consist of manufacturing work orders that you use to build, service, or maintain something. Production tasks are always associated with an item, whereas item numbers are optional for nonproduction tasks. All tasks in a work breakdown structure are work order master records that are stored in the Work Order Master File Table (F4801).

The task type also determines how the cost roll-up is set up and performed. For production tasks, costs are mapped by cost type and are stored in the Production Cost Table (F3102). For nonproduction tasks, costs are mapped by account and are stored in the Account Ledger Table (F0911).

Understanding Project-Specific Material

When you work with ETO projects, you must be able to distinguish the material that you purchase or produce for the project from your general inventory. If you do not define the items that you use for the project as project-specific, you might experience difficulties in terms of project supplies. Defining project-specific material enables you to do the following:

- Maintain project-specific inventory commitments
- Recognize end-items as project-specific at completion
- Perform project-specific financial commitments

You define project-specific items by assigning them one of two codes from the Stocking Type Code UDC Table (41/I) when you set up the item in the Item Branch/Plant program (P41026). The system currently provides two predefined codes: G (for items manufactured for a project) and H (for items purchased for a project). Both codes include a special handling code of P to indicate that items that are set up with these two stocking types are treated as project-specific by the system. For planning purposes, the Description 2 field contains the code that indicates whether the item should be purchased or manufactured.

Understanding Line Type and Line Type Constants for ETO

In addition to defining items as project-specific by assigning them a specific stocking type, you also set up project-specific items with a line type that enables you to maintain financial commitments for items that are used in projects. When you set up project-specific items in the Item Branch/Plant program (P41026), you assign them a line type that is defined with an inventory interface of C. You set up the inventory interface along with other line type constants for the line type in the Line Type Constants program (P40205).

This inventory interface enables you to make financial commitments for stock items. Inventory Interface C combines the features of inventory interface Y (Inventory) with A (GL Account) and B (GL Account and Non-Stock). The ability to create financial commitments enables the project manager to calculate projected final cost by using the Job Cost system.

Note. To make financial commitments, you must define commitment document types in the Commitment Document Type UDC Table (40/CT).

You can also activate the Call Materials Issue option for the line type to enable the system to automatically issue material purchased for a work order upon receipt of the material.

See Also

Setting Up Order Line Types in the Procurement Guide for further information about setting up line type constants

Setting Up Cost and Account Classifications

This section provides an overview of cost and account classifications and discusses how to:

- Set processing options for Cost Classifications (P31P301).
- Set up cost classifications.
- Set up account classifications.

Understanding Cost and Account Classifications

One of the most important priorities for a project manager is the ability to control the costs associated with a project. In order to maintain control of the budget, the project manager needs to be able to review the actual costs reported for any project task at any point in time throughout the project life-cycle. The actual costs need to be associated with the same cost buckets that are available for the estimated costs so that the project manager can compare the estimated, budgeted, or planned costs with the actual costs at any stage of the project. In addition, mapping costs to the correct cost buckets enables the system to roll up costs for each level of detail to the next parent level in the work breakdown structure and to the project level. Examples of cost buckets that are used in the Project Workbench program (P31P001) are labor, material, other, and special. You set up these cost buckets as user-defined codes in the Cost Classification UDC Table (31P/CC).

The Cost Classification program (P31P301) enables you to map costs to cost buckets either by cost type or by account number. These options accommodate the fact that a project can contain two types of tasks: production tasks, such as manufacturing work orders, and nonproduction tasks, such as project management tasks, travel, and so on. You can retrieve the actual costs that are associated with production tasks from the Production Cost Table (F3102), where they are stored by cost type. The costs associated with nonproduction tasks are stored in the Account Ledger Table (F0911). Therefore, you need to associate the appropriate accounts with the user-defined cost buckets to make costs for nonproduction tasks visible to a project manager and roll them up to higher levels in the project structure.

You can define cost type and account mappings for one of the following combinations:

- Branch/plant and project number of a particular project
- Branch/plant of a project, where the project number is blank
- All branch/plants and projects (both fields remain blank)

The previous list defines the hierarchy that the system uses to retrieve the correct categories for displaying costs in the Project Workbench program and for rolling up actual costs. This information is stored in the Cost Classification Table (F31P21).

Note. You use the processing option for the Cost Classification program to determine whether you are going to map cost types or account numbers.

Forms Used to Set Up Cost and Account Classifications

Form Name	Form ID	Navigation	Usage
Work with Cost Types, & Work with Account Numbers	W31P301A	Cost Classification (G31P31), Cost Classification Depending on a processing option, the Work with Account Numbers or Work with Cost Types form appears.	Locate and review cost types or accounts.
Revise Cost Types	W31P301B	On Work with Cost Types, click Add.	Set up cost type classifications.
Revise Account Numbers	W31P301C	On Work with Account Numbers, click Add.	Set up account classifications.

Setting Processing Options for Cost Classification (P31P301)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

This processing option controls whether you can work with cost types or with account numbers when using this program.

1. Default View

Specify how the system displays the program. Values are:

Blank: View by Cost Type.

1: View by Cost Type.

2: View by Account Number.

Setting Up Cost Classifications

Access the Revise Cost Types form.

Branch/Plant

A code that represents a high-level business unit. Use this code to refer to a branch or plant that might have departments or jobs, which represent lower-level business units, subordinate to it. For example:

- Branch/Plant (MMCU)
- Dept A (MCU)

- Dept B (MCU)
- Job 123 (MCU)

Business unit security is based on the higher-level business unit.

Project Number

A number that identifies an ETO project in the system. The project must be set up in the Add/Revise Project program (P31P011).

Cost Type

A code that designates each element of cost for an item. Examples of the cost object types are:

A: Purchased raw material

B1: Direct labor routing rollup

B2: Setup labor routing rollup

C1: Variable burden routing rollup

C2: Fixed burden routing rollup

Dx: Outside operation routing rollup

Xx: Extra add-ons, such as electricity and water

The optional add-on computations usually operate with the type *Xx* extra add-ons. This cost structure enables you to use an unlimited number of cost components to calculate alternative cost rollups. The system then associates these cost components with one of six user-defined summary cost buckets.

Cost Type Desc

A user-defined name or remark.

Setting Up Account Classifications

To display the Work with Account Numbers form, you must set the processing option for the Cost Classification program (P31P301) to display the program by account, rather than cost type.

Access the Work with Account Numbers form.

Account Number

A value that identifies an account in the general ledger. Use one of the following formats to enter account numbers:

- Standard account number (business unit object subsidiary or flex format).
- Third GL number (maximum of 25 digits).
- Account ID number. The number is eight digits long.

Speed code, which is a two-character code that you concatenate to the AAI item SP. You can then enter the code instead of an account number.

The first character of the account number indicates its format. You define the account format in the General Accounting constants.

Cost Classification

A user-defined code 31P/CC that the system uses to associate cost types or account numbers with cost buckets, such as material costs, labor costs, other costs, or special costs. Correct cost classification ensures that costs are rolled up into the correct cost bucket within the Project Workbench program (P31P001).

Setting Up User Defined Codes for ETO

PeopleSoft EnterpriseOne provides the following user-defined code (UDC)les, which enable you to define engineer-to-order processes according to specifications derived from your business environment:

UDCle	Description
Order Type (48/OT)	This table enables you to distinguish each work order record in the Work Order Master File table (F4801) from other records with different work order types. For example, you do not use the same document type and work order type to represent both an equipment work order and a manufacturing work order.
Cost Classification (31P/CC)	This table lists the cost buckets used in the Project Workbench program (P31P001) to categorize the costs stored in the Production Cost (F3102) and Account Ledger (F0911) Tables for visibility and rollup in the work breakdown structure for a project.
Project Quote Status (31P/QP)	This table provides the definitions of the statuses that the system uses to track the progress of the different quote versions that you create when you generate a proposal for a customer. The system provides five quote statuses that are hard-coded.
Project Quote Inactive Reason Code (31P/RC)	This table lists reasons why quotes are set to an inactive status.
Task Dependency Type (31P/DT)	This table lists the standard task dependency types that you can use to establish dependencies between the tasks on the work breakdown structure.
Stocking Type Code (41/I)	This table lists the stocking types that you assign to items in the Item Master program (P4101). You use the stocking type code to designate an item as project-specific.
Commitment Document Types (40/CT)	This table lists the document types that are considered for financial commitments.
Project Accounting (31P/AI)	This table lists the automatic accounting instructions that are set to enables project accounting.
Project Billing Method (31P/PB)	This table lists the available project billing methods that you can select for the project on the Add/Revise Project form.
Distribution Requirements Planning (34/DR)	This table lists project-specific quantity types for DRP.
DRP Unadjusted (34/DU)	This table lists project-specific quantity types for unadjusted DRP.
Electronic Mail Boxes (02/MB)	This table includes electronic mailboxes for project notifications.

UDCle	Description
Inventory Interface (H40/IV)	This table includes inventory interface C to enable financial commitments for projects with a Job Cost interface.
Maintenance Material Planning (34/MM)	This table lists project-specific quantity types for material maintenance planning.
Master Production Schedule (34/MS)	This table lists project-specific quantity types for MPS.
Plant Maintenance Management (34/PM)	This table lists project-specific quantity types for plant maintenance management.
Material Requirements Planning (34/MR)	This table lists project-specific quantity types for MRP.
Quantity Type (34/QT)	This table lists project-specific quantity types for supply and demand.
Resource Assignment Level (48/RL)	This table specifies whether resource assignments are at the level of the work order or the work order labor detail, based on the work order document type. To make assignments at the labor detail level, you must use this UDC table to specify the work order document type.
Text Substitution Based on table (42/01)	This table lists user-defined codes that are required for the Generated Documents program (P00391).
Text Substitution Code (42/02)	This table lists user-defined codes that are required for the Generated Documents program.

Setting Up Job Cost Integration

This section provides an overview of Job Cost integration and discusses how to add a chart of accounts for a project.

Understanding Job Cost Integration

Depending on your company's business requirements, you can select to integrate the Job Cost system with ETO. You can use the features of Job Cost to perform profitability analysis and to use the service and contract billing features that you can access from the Job Cost system. Using the Job Cost and ETO systems together might be particularly beneficial in a complex manufacturing environment that includes long-term projects.

You need Job Cost integration if you want to perform financial commitments for manufacturing work orders. To make financial commitments for manufacturing work orders, you must set up the manufacturing work order document type in the Commitment Document Types UDC table (40/CT).

To enable project-specific accounting, you use the Special Handling Code field in the Project Accounting UDC table (31P/AI) to set up the following AAI's to include project-specific accounts:

- 3110 (Inventory/Raw Material)
- 3120 (Work in Process)

- 3130 (Subassembly/Finished Goods)
- 3140 (Project Contra)
- 4310 (Inventory)
- 4315 (Non-Inventory)

To activate the Job Cost system when you set up the attributes for a project, you turn on the Interface to Job Cost option. To use the features of the Job Cost system, you must define a GL class code. Next, you must create a record in the Extended Job Master table (F5108). The business unit from the extended job master record becomes the default business unit for the project header and tasks. You need to add a chart of accounts that provides the subsidiary accounts that you assign to the project and the tasks. If job cost integration is turned on, each task in the work breakdown structure requires a subsidiary.

Note. If you set the processing option for creating a job master record, the system automatically calls the Job Cost Master Revisions program as you are adding or copying a project.

Chart of Accounts

To add a chart of accounts, you access the Job Cost Code Structures program (P51091) from the Job Cost menu or from the Project Workbench program. Instead of adding the chart of accounts interactively, you can set a processing option to copy the chart of accounts from another record. In this case, you must specify the source (chart of accounts or job) and the name of the chart or job from which to copy the chart of account information.

After you add the chart of accounts, you assign subsidiary accounts to the ETO project and tasks. You can use the Subsidiary field to enter the desired subsidiary account for a task. You can also set a processing option to copy subsidiaries from a parent task to all its child tasks.

Prerequisite

Ensure that you turned on the Interface to Job Cost option in the project attributes.

See Also

Entering Job Master Information in the Job Cost Guide for details about setting up a job master record

Forms Used to Set Up Job Cost Integration

Form Name	Form ID	Navigation	Usage
Work with Projects	W31P001B	Project Workbench (G31P12), Project Workbench	Locate and review projects by branch/plant, project number, from and thru status, and so on.
Add/Revise Project	W31P011A	On Work with Projects, select Attributes from the Row menu.	Set up a project or revise information about an existing project.
Copy Cost Codes	W31P011C	On Add/Revise Project, select Copy Chart of Accounts from the Form menu.	Specify the name of the chart of account S or job from which to copy chart of account information.

Adding a Chart of Accounts for a Project

If you specify in a processing option that the copy source is a chart of accounts, you enter a chart of accounts name instead of a job on the Copy Cost Codes form.

Access the Chart of Accounts form

To add a chart of accounts for a project, from the Project Workbench menu (G31P12), choose Project Workbench:

1. On Work with Projects, choose the project for which you want add a chart of accounts, and then choose Attributes from the Row menu.
2. On Add/Revise Project, choose Copy Chart of Accounts from the Form menu.
3. On Copy Cost Codes, complete the following job field to determine the jobs to copy from and to.

Note. If you specify in the processing options that the copy source is a chart of accounts, you enter a chart type instead of a job.

4. Complete the following fields:

- Cost Code From
- Cost Type From
- Cost Code Thru
- Cost Type Thru
- Level of Detail

5. Click OK.

Integrating ETO with Microsoft Project

This section provides an overview of the ETO integration to Microsoft Project process and discusses how to:

- Set processing options for Export to MS-Project (R31P404) and Import from MS-Project (R31P801) processes.
- Export ETO Project Information to Microsoft Project.
- Import ETO project information from Microsoft Project.

Understanding the ETO Export and Import Process

When working with the Engineer to Order (ETO) system, you can use Microsoft Project to take advantage of some of the features of that program that compliment ETO features. You can export the work breakdown structure (WBS) that you created in the Project Workbench program (P31P001) to a Microsoft Project file. After you export your WBS, you can use the graphical features provided by Microsoft Project, such as Gantt charts, PERT diagrams, and so on, to represent project information in a more visual format. You can make changes to the Microsoft Project file to perform what-if analyses without affecting your original WBS. Finally, you can also share the exported project information with an audience that might not have access to the project information in the Project Workbench program.

Form Used to Integrate ETO with Microsoft Project

Form Name	Form ID	Navigation	Usage
Work with Batch Versions - Available Versions	W98305WA	MS Project Integration (G31P13), Export to MS-Project or Import from MS-Project	Export or import project information using Microsoft Project.

Setting Processing Options for Export to MS-Project (R31P404) and Import from MS-Project (R31P801)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

Select the Process tab.

1. Name and Path of the flat file

The name of the flat file. This includes the directory path where the flat file exists.

(Ex. C: \Project.csv)

2. Date Format

The format of a date as it is stored in the database.

For OneWorld, the following date formats are valid: YMD, MDY, DMY, EMD. If you leave this field blank, the system displays dates based on the settings of the operating system on the workstation. With NT, the Regional Settings in the Control Panel control the settings for the operating system of the workstation.

For World Software, the following date formats are valid: DMY, MDY, YMD. EMD is not a valid date format.

Exporting ETO Project Information to Microsoft Project

When you export project information, the system creates a comma-delimited flat file (.csv) that contains all of the fields in the Work Order Master File table (F4801) for all of the task records in the WBS. The system saves the flat file to the location that you specified in the processing options for the Export to MS-Project program (R31P404).

When you open the flat file in Microsoft Project, the system prompts you to map flat file fields to corresponding fields in the Microsoft Project file that you want to create. In order for the integration to work properly, you must map the following fields to the corresponding Microsoft Project fields:

Flat File	Microsoft Project	Comment
SEQN	Unique ID	The system uses the task sequence field to determine the Microsoft Project task ID.
DL01	Name	In Microsoft Project, all tasks must be named.
STRT	Start	This field is required to create a Gantt chart.
DRQJ	Finish	This field is required to create a Gantt chart.
Successors	Successors	This field is required to display task links in Microsoft Project.
Outline Level	Outline Level	This field is required to display parent/child relationships in Microsoft Project.
DOCO	Text01	This field is required to import information from Microsoft Project.
DCTO	Text02	This field is required to import information from Microsoft Project.

All other fields are optional.

Importing ETO Project Information from Microsoft Project

To be able to reimport the Microsoft Project file back to the Project Workbench program, you must correctly map the DOCO, DCTO, and PARS fields. PeopleSoft provides a Microsoft Project template that includes a standard mapping.

After you set up the project in Microsoft Project, you can make changes as needed and communicate the information to others. When you save the file, you save it as a .csv file and select the same mapping that you used for importing the flat file into Microsoft Project. The resulting .csv file contains all of the fields listed in the mapping specification.

When working with the project in Microsoft Project, you must apply the following rules in order to be able to import the project file back to the Project Workbench program successfully:

- You cannot add tasks to or delete tasks from the WBS. The system enables you to import records that you originally exported back to the Project Workbench program.
- You cannot change some fields. For example, you can update the Quantity Completed field in the Work Order Master File Table only by running the Work Order Inventory Completion program (P31114).
- You must express the lag time for dependencies in days.

After you make your changes, you can import the .csv file back to the Project Workbench program. You use a processing option for the Import from MS-Project program (R31P801) to specify the location of the flat file that you are importing.

Note. When you export project information to a flat file to be read by Microsoft Project, you must specify the location of the flat file. Depending on the operating system and server, you can specify the location of a file in various ways. For example, in a UNIX environment, the flat file is a binary file, and the directory structure is different than the folder structure in a Windows environment.

Guidelines

The following recommendations provide some guidelines for running the export and import process smoothly.

- Map the business functions B31P0240 and B31P0250 to run locally, at least for the user or user group who attempts to run the export or import process.
- Run the Export to MS-Project and Import from MS-Project programs locally. This can be achieved through OCM mapping or by overriding the location when you submit the job.
- Use a Windows-based file system to specify the path and the file name, mainly because Microsoft Project works best in Windows.

Other setup might include setting the date format on the workstation to be consistent with the processing options for the Export to MS-Project and Import from MS-Project programs.

CHAPTER 4

Setting Up the Project Initiation

This chapter provides an overview of the project initiation process and discusses how to:

- Create projects.
- Work with project tasks.
- Schedule project tasks.
- Generate quotes and proposals.

Understanding the Project Initiation Process

Project initiation is the beginning phase for large-scale engineer-to-order or make-to-order activities. Industries that make products according to very specific customer requirements rely on project management practices to ensure that all customer requirements are met in the final product. Projects of this nature can have a life cycle of a year or more; therefore, during the project initiation phase, you must comprehensively and accurately enter all of the information that is required for a project.

If you operate in an engineer-to-order business environment, you typically initiate a project only when a customer requests a quote for a specific product. After the customer transmits the request for a quote, you complete the following activities that yield the information that is required for a quote:

- Create a project
- Define high-level phases and tasks
- Determine an estimated schedule
- Calculate estimated costs
- Determine a price and generate a proposal

The goal of these activities is to provide the customer with sufficient information to make an informed decision about accepting or rejecting the quote. Some of the project initiation activities might be iterative, in response to additional customer questions and requirements. The project initiation phase concludes when the customer accepts the quote and you actually start planning for and working on the project tasks.

Creating Projects

This section provides an overview of the Project Workbench program (P31P001) and discusses how to:

- Set processing options for the Project Workbench program.

- Create projects.

Understanding the Project Workbench Program

When a customer requests quote information for the product that you propose to produce for the customer, your first step is to set up a project. You have several options for creating a project. You can create a new project using the Add/Revise Project program (P31P011), or you can copy an existing project and change the project header information, as appropriate. After you define all the global project information, you can add task and schedule information, as well as financial estimates. This essential information helps you understand the activities that are required for a project and the costs that you will incur when you execute these activities. Without this information, you might have difficulty providing the customer with a realistic quote that enables you to complete the project at a profit.

Note. When you copy a project for the purpose of creating a new project, the system copies the task information that is associated with this project, but not the task dependencies.

Projects are stored as records in the Work Order Master File Table (F4801). When you set up a new project, you need to provide the following required information:

- Project description
- Branch/plant
- Order type
- Planned start date
- Planned end date

The Add/Revise Project form enables you to add additional information, such as a business unit and a customer number, on the Project Information. The branch/plant provides the default value for the business unit, if you do not enter a business unit. If you use the Job Cost system with Engineer to Order, you can enter a business unit that is different from the branch/plant. If you enter a business unit that does not exist in the system, and you have activated the Job Cost interface, you can add a new record to the Extended Job Master Table (F5108). You need to provide a customer number in order to generate a sales quote from the Project Quotes program (P31P100). You can also use the customer number to retrieve cost information, such as tax rates.

On the People, you can provide information about some of the people involved with the project, such as the manager and supervisor, and specify an email distribution list for status change notifications and project alerts.

The Project Attributes contains important processing information. You can determine whether the system commits inventory before or after the Quote Accept stage of the project. You can avoid allocating inventory and making financial commitments until you have assurance that the project will actually proceed. You can also specify whether the system overrides the originally entered estimated costs with the planned costs after you attach the parts list and routing instructions to a task.

If you are planning to use Job Cost feature of Engineer to Order, you need to activate the Job Cost Interface option on the Job Cost and enter a GL class code. A subsidiary is required for every task. The Job Cost system uses only planned costs, and the project must be moved to the Quote Accept status before Job Cost can be used.

The Project Status on the Add/Revise Project form displays information about the stages of a project. When you complete each stage, the system turns on the corresponding option, such as Quote Is Accepted. The options on this are locked from user input and are for information only.

On the Order Information, you can specify order information, such as item number, quantity, and unit of measure. On the Sales Order, you can specify a billing method for the project. The program also provides a number of category codes that you can use for reporting.

Technical Considerations for Storing Project Information

When you work with the Project Workbench program (P31P001), the system enables you to add and change project information. If you close the Project Workbench program without clicking OK, the information that you added or changed is not saved. The information is stored in cache to improve system performance. As long as the information resides only in cache, it is not stored in the appropriate tables. In order to save the project information, you must click OK in the Project Workbench program before you close the program.

Prerequisites

Before you complete the tasks in this section:

- For integration with the Job Cost system, ensure that the processing option is set to create a record in the Extended Job Master Table (F5108).
- If you want to create a project by copying a previous project, set the processing option for copying cost information appropriately.

Forms Used to Create Projects

Form Name	Form ID	Navigation	Usage
Work with Projects	W31P001B	Project Workbench (G31P12), Project Workbench To copy a project, select the project and click Copy. On Add/Revise Project, enter values in the blank fields for the project (such as Planned Start and Planned End fields). Revise other fields as needed and click OK. The system does not copy the task dependencies of the previous project. To revise a project, select the project and select Attributes from the Row menu. On Add/Revise Project, revise the information.	Review existing projects, copy a project, and revise a project.
Project Inquiry	W31P001B	On Work with Projects, select the project and select Project Inquiry from the Row menu. On Project Inquiry, review the work breakdown structure of the project.	Review a project. The system displays the project as a hierarchical tree structure that includes all of the tasks that have been entered for the project. When you select a project task in the tree structure, the corresponding record in the detail area is also highlighted. You can move tasks if you have set the processing options accordingly.
Resource Assignment	W31P001	On Project Inquiry, select Resources from the Row menu.	Revise resource information.
Add/Revise Projects	W31P011A	On Work with Projects, click Add. Do one of the following: To create a project, enter values in the fields for each, as applicable, and click OK. On Project Workbench, click OK to save the new project.	Create a new project.

Setting Processing Options for Project Workbench (P31P001)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Defaults

These processing options control the default values for order type, as well as task and project status.

- | | |
|---|--|
| 1. Enter the Default Order Type. | Use this processing option to specify the order type that is used as the default value when you create new tasks on the Project Workbench. |
| 2. Enter the beginning Status for new Tasks. | Use this processing option to specify the beginning status that is used as the default value when you create new tasks for non-configured items. |
| 3. Enter the beginning Status for Configured Tasks. | Use this processing option to specify the beginning status that is used as the default value when you create new tasks for configured orders. |
| 4. Enter the Default 'From Status' of Projects to display. | Use this processing option to specify the default value for the From Status filter field on the Work With Projects form. |
| 5. Enter the Default 'Thru Status' of Projects to display. | Use this processing option to specify the default value for the Thru Status filter field on the Work With Projects form. |

Versions

These processing options control which version of the following programs the system uses when you call these programs from the Project Workbench program.

- | | |
|---|---|
| 1. Manufacturing Work Order Entry (P48013) | Use this processing options to specify which version of the Manufacturing Work Order Processing program (P48013) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 2. Equipment Work Order Entry (P17714) | Use this processing options to specify which version of the Work Order Revisions program (P17714) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 3. Service Work Order Entry (P17714) | Use this processing options to specify which version of the Work Order Revisions program (P17714) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 4. Configurator (P32942) | Use this processing options to specify which version of the Configured Item Specifications program (P32942) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 5. Manufacturing Work Order Parts List (P3111) | Use this processing options to specify which version of the Work Order Parts List program (P3111) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |

- | | |
|--|---|
| 6. Manufacturing Work Order Routings (P3112) | Use this processing options to specify which version of the Work Order Routing program (P3112) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 7. Equipment Work Order Parts List (P17730) | Use this processing options to specify which version of the Work Order Parts Detail program (P17730) the system calls. If you leave this processing option blank, the system uses version ZJDE0002. |
| 8. Equipment Work Order Labor Detail (P17732) | Use this processing options to specify which version of the Work Order Labor Detail program (P17732) the system calls. If you leave this processing option blank, the system uses version ZJDE0002. |
| 9. Service Work Order Parts List (P17730) | Use this processing options to specify which version of the Work Order Parts Detail program (P17730) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 10. Service Work Order Labor Detail (P17732) | Use this processing options to specify which version of the Work Order Labor Detail program (P17732) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 11. Cost Components (P30026) | Use this processing options to specify which version of the Cost Components program (P30026) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 12. Project Quotes (P31P100) | Use this processing options to specify which version of the Project Quotes program (P31P100) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 13. Job Cost Master Revisions (P51006) | Use this processing options to specify which version of the Job Cost Master program (P51006) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 14. Upload Job Cost Budget (R31P800) | Use this processing options to specify which version of the Upload Job Cost Budget program (R31P800) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 15. Sales Order Entry (P4210) | Use this processing options to specify which version of the Sales Order Entry program (P4210) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 16. Work Order Processing (R31410) | Use this processing options to specify which version of the Order Processing program (R31410) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 17. Project Close Analyzer (R31P403) | Use this processing option to specify which version of the Project Close Analyzer program (R31P403) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 18. Work Order Inventory Issues (P31113) | Use this processing options to specify which version of the Work Order Inventory Issues program (P31113) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |
| 19. Work Order Hours and Quantities (P311221) | Use this processing options to specify which version of the Work Order Time Entry program (P311221) the system calls. If you leave this processing option blank, the system uses version ZJDE0001. |

20. Work Order Completions (P31114)	Use this processing options to specify which version of the Work Order Completions program (P31114) the system calls. If you leave this processing option blank, the system uses version ZJDE0001.
21. Resource Assignment (P48331)	Use this processing options to specify which version of the Resource Assignment program (P48331) the system calls. If you leave this processing option blank, the system uses version ZJDE0001.
22. Export Project Information (R31P404)	Use this processing option to specify which version of the Export Project Information program (R31P404) the system calls. If you leave this processing option blank, the system uses version ZJDE0001.
23. Import Project Information (R31P801)	Use this processing option to specify which version of the Import Project Information program (R31P801) the system calls. If you leave this processing option blank, the system uses version ZJDE0001.
24. Net Change (R31430)	Use this processing option to specify which version of the Net Change Processing program (R31430) the system calls. If you leave this processing option blank, the system uses version XJDE0001.
25. Related Orders (P31P204)	Use this processing option to specify which version of the Related Orders program (P31P204) the system calls. If you leave this processing option blank, the system uses version ZJDE0001.

Process

These processing options control settings that affect processing in the Project Workbench program, such as whether you can move a task on the Project Inquiry form and at what status tasks are considered canceled or closed.

1. Enable task moves in Project Inquiry	Use this processing option to specify whether the user can move tasks to a different parent task by using the drag-and-drop feature on the Project Inquiry form. Values are: <i>Blank:</i> Tasks cannot be moved. <i>1:</i> Tasks can be moved.
2. Enter the canceled status for tasks.	Enter the status for canceled tasks. When you select the Cancel Task row exit, the system moves the selected task to this status. Tasks at this status appear crossed out.
3. Enter the closed status for tasks.	Enter the status for closed tasks. When you select Close Task from the Row menu on the Project Workbench form, the system moves the selected task to this status. Tasks at this status appear crossed out.
4. Net Change	Use this processing option to specify whether net change processing is performed when you exit the Project Workbench program (P31P001). You may want to run net change processing when you have changed information, such as dates, quantity, or unit of measure, on a work order which has a parts list and routing attached to it. The Net Change Processing program (R31430) can be launched when you click OK on the Project Workbench form. Values are: <i>Blank:</i> Do not perform net change processing when you exit the Project Workbench. <i>1:</i> Perform net change processing when you exit the Project Workbench.

Note. The Quantities and Dates processing option in the specified version of Manufacturing Work Order Entry program (P48013) must be set to recalculate parts list and routing information.

Copy

These processing options control copy functions within the Project Workbench program. For example, you can specify whether the system creates a job master record when you set up a project, whether to copy the chart of accounts blindly, and the chart or job from which the system copies the information.

- | | |
|------------------------------|--|
| 1. Create Job Master | <p>Use this processing option to specify whether the system should create a Job Master record when you add or copy a project. Values are:</p> <p><i>I</i>: Create a Job Master record.</p> <p><i>Blank</i>: Do not create a Job Master record.</p> |
| 2. Amount Ledger Type | <p>Use this processing option to specify the amount ledger type that you want to update. If you leave this processing option blank, the JA ledger will be updated. The budget unit ledger type to be updated is determined automatically, based on the amount ledger type. For example, the corresponding budget unit ledger type for JA is JU.</p> |
| 3. Copy Blindly | <p>Use this processing option to specify whether the system copies the chart of accounts automatically or interactively. If you select to copy the chart of accounts interactively, you do so using a form exit. If you specify that the system copy the chart of accounts automatically, it does so after the job master record is created. You must define the source of the data to copy to the job. Values are:</p> <p><i>Blank</i>: Do not automatically copy the chart of accounts.</p> <p><i>I</i>: Copy the chart of accounts automatically.</p> |
| 4. Job Copy Source | <p>Use this processing option to specify the data source for the job that you want to copy. If you copy the data from an existing chart of accounts, you must enter the name of the chart of accounts into the Chart To Copy From processing option. If you copy the data from an existing job, you must enter the name of the job into the Job To Copy From processing option. Values are:</p> <p><i>I</i>: Copy job data from an existing chart of accounts.</p> <p><i>Blank</i>: Copy job data from an existing job.</p> |
| 5. Job to copy from. | <p>Use this processing option to specify the data source for the job that you want to copy. If you copy the data from an existing chart of accounts, you must enter the name of the chart of accounts into the Chart To Copy From processing option. If you copy the data from an existing job, you must enter the name of the job into the Job To Copy From processing option. Values are:</p> <p><i>I</i>: Copy job data from an existing chart of accounts.</p> <p><i>Blank</i>: Copy job data from an existing job.</p> |
| 6. Chart to copy from | <p>Use this processing option to specify the data source for the job that you want to copy. If you copy the data from an existing chart of accounts, you must enter the name of the chart of accounts into the Chart To Copy From processing</p> |

option. If you copy the data from an existing job, you must enter the name of the job into the Job To Copy From processing option. Values are:

1: Copy job data from an existing chart of accounts.

Blank: Copy job data from an existing job.

7. Upload Original Budgets Use this processing option to specify whether you want to copy budgets while blindly copying the chart of accounts. Values are:

Blank: Do not copy budgets.

1: Copy revised budgets.

2: Copy original budgets.

3: Copy revised budgets into original budgets.

8. Assign Subsidiary Use this processing option to specify whether to upload original budgets automatically when you select the Lock Job Cost Budget option. Values are:

Blank: Upload the original budget manually.

1: Upload the original budget automatically.

9. Copying Cost for New Project Assign the subsidiary account from the parent task to all of the child tasks automatically. The automatic assignment is possible only if the Subsidiary field in the child task line is blank. Values are:

Blank: Do not assign a subsidiary account automatically.

1: Assign a subsidiary account automatically.

Scheduling

These processing options control scheduling for projects and determine whether you can modify frozen work order dates.

1. Enter the real time scheduling mode.

Activate real-time scheduling for tasks or subtasks that you are adding to or are moving within a project. You can use forward scheduling when the successor task schedule depends on the predecessor task schedule. You can also use backward scheduling when the predecessor task schedule depends on the successor task schedule. Values are:

0: Do not activate real-time scheduling.

1: Activate forward scheduling.

2: Activate backward scheduling.

2. Modify Frozen Work Order dates

Use this processing option to specify whether you want to enable the dates on a frozen work order to be modified. Values are:

Blank: The scheduling feature does not adjust the work order dates.

1: The scheduling feature reschedules the frozen work order dates when appropriate.

Creating Projects

Access the Add/Revise Projects form.

Project Information

Select the Project Information tab.

Business Unit

The Branch or Plant field provides the default value for the business unit. If you use the Job Cost system, enter the job number in the Business Unit field.

An alphanumeric code that identifies a separate entity within a business for which you want to track costs. For example, a business unit might be a warehouse location, job, project, work center, branch, or plant.

You can assign a business unit to a document, entity, or person for purposes of responsibility reporting. For example, the system provides reports of open accounts payable and accounts receivable by business unit to track equipment by responsible department.

Business unit security might prevent you from viewing information about business units for which you have no authority.

Branch

A code that represents a high-level business unit. Use this code to refer to a branch or plant that might have departments or jobs, which represent lower-level business units, subordinate to it. For example:

- Branch/Plant (MMCU)
- Dept A (MCU)
- Dept B (MCU)
- Job 123 (MCU)

Business unit security is based on the higher-level business unit.

Customer

A number that identifies an entry in the Address Book system, such as employee, applicant, participant, customer, supplier, tenant, or location.

Status

A user defined code (00/SS) that discusses the status of a work order, rate schedule, or engineering change order. Any status change from 90 through 99 triggers the system to automatically update the completion date.

Order Type

A user defined code (00/DT) that identifies the type of document. This code also indicates the origin of the transaction. PeopleSoft has reserved document type codes for vouchers, invoices, receipts, and time sheets, which create automatic offset entries during the post program. (These entries are not self-balancing when you originally enter them.)

The following document types are defined by PeopleSoft and should not be changed:

P: Accounts Payable documents

R: Accounts Receivable documents

T: Payroll documents

I: Inventory documents

O: Purchase Order Processing documents

J: General Accounting/Joint Interest Billing documents

S: Sales Order Processing documents

Dates

Select the Dates tab

Planned Start This field identifies the start date of either the work order or the routing instructions.

Planned End The date that an item is scheduled to arrive or that an action is scheduled for completion.

Note. The Actual Start and Actual End date fields on the project header will be updated later from the project as the actual start and end dates for tasks are combined into the actual start and end dates for the project. The other date fields are user defined. For example, the user can enter baseline dates for the project.

People

Select the People tab.

Manager The address book number of a manager or planner.

Note. A processing option for some forms enables you to enter a default value for this field based on values for category codes 1 (Phase), 2, and 3. You set up the default values on the Default Managers and Supervisors form. After you set up the default values and the processing option, the default information displays automatically on any work orders that you create if the category code criterion is met. You can either accept or override the default value.

Supervisor The address book number of the supervisor.

For some programs, you can use a processing option to specify a default value for this field based on the values for category codes (phases) 1, 2 and 3. You can set up the default values in the Work with Work Order Default Codes program (P48001). The system automatically displays the information that you specified on all work orders that you create, provided that you meet the category code criterion. You can override the default value.

Assigned To The address book number of the person assigned to do the work.

Distribution List The address book number of the parent company. The system uses this number to associate a particular address with a parent company or location. Any value that you enter in this field updates the Address Organizational Structure Master Table (F0150) for the blank structure type. This address number must exist in the Address Book Master Table (F0101) for validation purposes. Examples of address book records that would have a parent number include:

- Subsidiaries with parent companies
- Branches with a home office
- Job sites with a general contractor

Organization Structure Type A user defined code (01/TS) that identifies a type of organizational structure that has its own hierarchy in the Address Book system (for example, email).

When you create a parent/child relationship for the Accounts Receivable system, the structure type must be blank.

Project Attributes

Select the Project Attributes tab.

Commit After Quote Accept	An option that specifies the stage of the project during which the system commits inventory when it attaches a parts list to a project work order. If you turn on this option, the system commits inventory after the Quote Accept stage. Otherwise, the system commits inventory before the Quote Accept stage.
Override Estimates Flag	A flag that is used to specify whether the system enables the estimated cost to be overridden with the planned cost when you attach a parts list and routing to the order. If you check mark the flag, the system overrides the estimated cost with the planned cost.

Estimate Costs

Select the Estimate Costs tab.

Material	This is the estimated material cost of a work order.
Labor	This is the estimated labor cost of a work order.
Other	Amount - Estimated Other.
Special Units	The approximate number of special units associated with a task prior to quote acceptance.
Special Amount	The approximate amount of special costs associated with a task prior to quote acceptance.

The system calculates the sum of the costs that you enter in these fields and stores it in the Total field.

Important! If you enter estimated costs for the project, these costs are stored in the project header record and appear on the first line of the work breakdown structure (WBS). The summarization fields at the bottom of the Project Workbench form show that the costs entered on the project header level are automatically added to the other project costs from the WBS. They are not overwritten when the other project costs are combined.

Job Cost

Select the Job Cost tab

Interface to Job Cost	A code that notifies the system to create an interface between the EPM project and Job Cost. Values are: <i>0</i> : Do not interface. <i>1</i> : Interface to Job Cost.
Require Activity Code	A flag that can be turned on to enable for the optional entry of activity codes.
Project GL Class Code	A user defined code (41/9) that identifies the GL offset account that the system uses when it uploads budgets, commitments, and actuals into project accounts.
Subsidiary	A subset of an object account. Subsidiary accounts include detailed records of the accounting activity for an object account.

Note. If you are using a flexible chart of accounts and the object account is set to six digits, you must use all six digits. For example, entering 000456 is not the same as entering 456 because, if you enter 456, the system enters three blank spaces to fill a six-digit object.

Order Information

Select the Order Information tab.

Item Number	A number that the system assigns to an item. It can be in short, long, or third item number format.
Quantity	The quantity of units affected by this transaction.
U/M	A user defined code (00/UM) that indicates the quantity in which to express an inventory item, for example, CS (case) or BX (box).
Type	A user defined code (00/TY) that indicates the classification of a work order or engineering change order. You can use work order type as a selection criterion for work order approvals.
Priority	A user defined code (00/PR) that indicates the relative priority of a work order or engineering change order in relation to other orders. A processing option for some forms lets you enter a default value for this field. The value then displays automatically in the appropriate fields on any work order you create on those forms and on the Project Setup form. You can either accept or override the default value.
Freeze Code	A code that indicates if the line on the order is frozen. MPS/MRP does not suggest changes to frozen orders. Values are: <i>Y</i>: Yes, freeze the order. <i>N</i>: No, do not freeze the order. This value is the default.
Ship This Phase	An option that specifies whether the system can generate a sales order line for a project task. Project Requirements Planning uses this value to explode project-specific requirements. The project task must be a top-level manufacturing work order. The system cannot generate sales order lines from subassembly, service, or summary work orders. Values are: <i>Blank</i>: Do not generate a sales order line <i>I</i>: Generate a sales order line

Categories

Select the Categories tab.

Phase	A user defined code (00/W1) that indicates the current stage or phase of development for a work order. You can assign a work order to only one phase code at a time.
--------------	--

Note. Certain forms contain a processing option that enables you to enter a default value for this field. If you enter a default value on a form for which you have set this processing option, the system displays the value in the appropriate fields on any work orders that you create. The system also displays the value on the Project Setup form. You can either accept or override the default value.

Category 02

A user defined code (00/W2) that indicates the type or category of a work order.

Note. A processing option for some forms lets you enter a default value for this field. The system enters the default value automatically in the appropriate fields on any work orders that you create on those forms and on the Project Setup form. You can either accept or override the default value.

Status

A user defined code (00/W6) that indicates the status of the work order.

Service Type

A user defined code (00/W7) that indicates the service type for the work order.

Skill Type

A user defined code (00/W8) that indicates the type or category of the work order.

Experience Level

A user defined code (00/W9) that indicates the type or category of the work order.

Category 10

A user defined code (00/W0) that indicates the type or category of the work order.

Sales Order

Select the Sales Order tab.

Note. The order number, order type, and order company information are provided by the Sales Order Management system.

Working with Project Tasks

This section provides an overview of project tasks and discusses how to add a project task.

Understanding Project Tasks

After you have set up a project, you create a work breakdown structure (WBS) that provides a hierarchy of tasks and subtasks that need to be completed for the project. You can also add all of the detail information that will enable you to plan for and run the project, such as the project schedule. You can also enter resource information that the system does not use for processing, but that you use for reference only. Finally, you can add cost estimates that will enable you to generate a quote for the customer.

After setting up a project header record with information such as project description, branch/plant, planned start and end dates, and so on, you can add to the project individual tasks that represent the steps required to complete the project. The set of tasks that make up the project is referred to as the work breakdown structure (WBS). You can add tasks to the work breakdown structure, provided that it is not yet locked. If you lock the WBS, the Lock WBS option on the Project Status in the Add/Revise Project program (P31P011) is turned on.

When you set up a project for the purpose of preparing a quote for a customer, you might want to add only high-level or summary tasks to enable you to identify the steps that are required to complete a project and to enter the costs associated with a task. By using this approach, you can determine a quote amount without having to expend more effort than necessary to develop a project before you actually receive an order from a customer. However, the business requirements and practices of your company determine the stage at which you add tasks and the level of detailed for the task structure. The procedure for adding tasks to projects remains the same regardless of when you do it. The system enables you to develop a work breakdown structure with an unlimited number of subordination levels. When you enter tasks, the system creates a record in the Work Order Master File Table (F4801) for each task and assigns the project number as parent work order number. You can create new tasks by copying tasks from an existing project or by entering new task information. You can also move tasks within the WBS or cancel tasks.

When you add tasks to the detail area of the workbench, you must specify the order type. If you add an equipment maintenance or service order task to the project, this task becomes the model work order. From the model work order, the system generates the assigned maintenance or service order and loads it to the Project Workbench program (P31P011). If you add a task that contains a configured item work order, which is identified by its stocking type (C), the Project Workbench program calls the Configured Item Specifications program (P32942) to complete the item configuration. Subsequently, the system creates all new work orders that are required by the configuration and adds them to the configured item task as child tasks.

You can use the processing options to set default values for tasks that you add to the WBS. For example, you can use processing options to set default values for the order type and the beginning status for new tasks. You can also specify whether the system automatically expands the project tree to show the task hierarchy.

You obtain planned cost information by running the Order Processing program (R31410) for work orders.

Forms Used to Work with Project Tasks

Form Name	Form ID	Navigation	Usage
Work with Projects	W31P001B	Project Workbench (G31P12), Project Workbench On Work with Projects, complete any of the filter fields and click Find.	Review existing projects.
Project Workbench	W31P001C	On Work with Projects, select a project and click Select. Enter values in the fields and click OK. When you click OK, the system generates work order numbers for the tasks.	Add individual tasks to a project.
Additional Task Information	W31P001D	On Project Workbench, select Other and then Additional Info from the Row menu	Add category code information to a project.
Search & Select	W31P202C	On Project Workbench, do one of the following: To copy a project task, click in the first blank record in the detail area and select Copy Task from the Form menu. On Search & Select, enter a project number and click Find. Select the task that you want to copy to the new project and click Select. Then Click OK. The system copies the task into the selected blank record on the work breakdown structure. To move a project task, select the task that you want to move and select Move Task from the Form menu. On Search & Select, select the new parent task for the task that you want to move and click Select. To delete a project task, select the task that you want to copy and click Delete. On Confirm Delete, click OK.	Copy, move, and delete a project task. You can move a manufacturing subassembly task to a new parent work order only if the subassembly task item is part of the parent work order's parts list.
Project Inquiry	W31P001F	On Project Inquiry, use the drag and drop feature. Select Save from the Form menu.	An alternative way to move project tasks.

Adding Project Tasks

Access the Work with Projects form.

Or Ty (Order Type)	This field and the Description field represent the minimum information that is required to create a project task.
Sub (Subsidiary)	If you use the job cost, enter a value in this field information to correctly map costs from the Project Workbench to the Job Cost system. The subsidiary information that you enter on the work breakdown structure relates to the cost codes for the chart of account in Job Cost.
Business Unit	If you use Job Cost, the default value for the business unit is the job from the job master record.
Duration	A value that represents the leadtime for an item at its assigned level in the production process, as defined on Plant Manufacturing Data. The system uses this value to calculate the start dates for work orders using fixed leadtimes. Level leadtime is different for purchased and manufactured items: • Purchased - The number of calendar days required for the item to arrive at your branch/plant after the supplier receives your purchase order. • Manufactured - The number of workdays required to complete the fabrication or assembly of an item after all the components are available. You can enter level leadtime manually on Manufacturing Values Entry, or you can use the Leadtime Rollup program to calculate it. To calculate level leadtime using the Leadtime Rollup program, you must first enter a quantity in the Manufacturing Leadtime Quantity field in the Item Branch (F4102).
Estimated Material	The approximate cost of materials associated with a task.
Estimated Labor	The approximate cost of labor associated with a task.
Estimated Other	A number that specifies other costs for the estimated cost category within EPM. EPM uses four cost categories: estimated, planned, budgeted, and actual. Estimated other is one of four categories within estimated cost. Additional categories for estimated cost include: estimated material cost, estimated labor cost, and estimated special cost. Estimated other cost is stored in the Work Order Master Tag File Table (F4801T).
Estimated Special Units	The approximate number of special units associated with a task prior to quote acceptance.
Estimated Special Amount	The approximate amount of special costs associated with a task prior to quote acceptance.

See Also

Assigning Estimated and Planned Costs in the Engineer to Order Guide for more detailed information about entering cost information into the work breakdown structure

Working with Orders for Configured Items in Engineer to Order in the Base Configurator Guide for information about adding configured work orders to the work breakdown structure

Scheduling Project Tasks

This section provides overviews of project task scheduling, resource and task assignments, and estimated and planned costs and discusses how to schedule project tasks.

Understanding Project Task Scheduling

In order to manage a project successfully over a period of time, the project manager needs to be able to create a project schedule that accurately reflects the time required to purchase and manufacture products needed to complete the project, as well as the limitations imposed by the availability of resources with the requisite skills. Effective time and resource management is a high priority in today's business environment. Accordingly, Engineer to Order helps you do the following:

- Schedule projects using standard project constraints, such as task dependencies, critical paths, and resource availability
- Use Microsoft Project to manage changes to project task information, such as durations and dependencies, for existing tasks

As you add tasks to the work breakdown structure (WBS) for the project, you need to indicate how much time is required to complete each task. For summary tasks, you need to enter durations manually. For work orders, the system retrieves the duration from the level lead time that is defined for the item in the Item Branch program (P41026). It calculates the start and end dates for the task by using the duration and the system's scheduling function. When you activate the scheduling function, the durations of subtasks roll up into the duration of the parent.

You can set a processing option to automatically forward or backward schedule tasks in real time, or you can use the options on the Form menu for forward and backward scheduling. If you change the dates or duration of a task, the system reschedules all tasks that are dependent on this task.

You use task dependencies to specify the sequence in which the project tasks need to be performed. The types of available task dependencies enable you to schedule overlapping tasks; that is, the earlier task (predecessor) can still be incomplete when the next task (successor) starts. You can use lag time in addition to the dependencies to structure the sequence of tasks. The following four types of task dependencies are available:

- **Finish to Start (FS).** The predecessor task must be completed before the successor task can start. For example, you might use this dependency type if the material produced by the predecessor task is needed for the successor task's manufacturing process.
- **Finish to Finish (FF).** The predecessor task must be completed before the successor task can be completed. For example, you might use this dependency type if the material produced by the predecessor task is needed only later in the successor task's manufacturing process.
- **Start to Start (SS).** The predecessor task must start before the successor task can start. For example, you might use this dependency type if you might need to make ongoing changes in the engineering and manufacturing process. In this case, recent changes in the engineering specifications of the predecessor task cause changes in the successor task.
- **Start to Finish (SF).** The predecessor task must start before the successor task can be completed.

When defining task dependencies in Engineer to Order, you need to observe the following rules:

- You can establish dependency links between parent tasks, but not between parent and related child tasks.
- You can create a dependency between a parent task and a child task that is not related to the parent task.
- You cannot create a reverse link between tasks that are already linked. This rule helps you avoid creating a circular relationship.

You define task dependencies for subtasks that are on the same level. In this case, the planned start and end dates depend completely on the defined task dependencies.

After you set up project information in the Project Workbench program (P31P001), you can export the WBS to a third-party software program, such as Microsoft Project. You can use Microsoft Project to work with task durations and dependencies. You can then import task revisions back into the Project Workbench program. If you add or delete tasks in Microsoft Project, you cannot import these changes into the Project Workbench program.

See Also

Back scheduling a Work Order in the Shop Floor Management Guide for more detailed information about the rules that the system uses for backward scheduling

Integration with Microsoft Project in the Engineer to Order Guide for more detailed information about exporting projects to Microsoft Project and importing changes back into the Project Workbench program (P31P001)

Understanding Resource and Task Assignments

The Project Workbench program (P31P001) enables the project manager to enter resources for tasks on the WBS. This capability enables the project manager to view the resources that are assigned to manufacturing tasks and projects and to track the availability of resources. Employees, in turn, can see their assignments, as well as the start and end dates for their tasks. You can assign multiple resources to a task, if necessary, to accommodate the amount of time required to complete the task.

You set up resource assignment information and perform resources assignments in the Resource Assignments program (P48331). After you assign resources there, you can review them on the project or the task level by choosing the Resources option from the Row menu on the Project Workbench form. For manufacturing work orders, you access the Resource Assignments program from the work order routing for the work order.

See Also

Assigning Resources to Tasks in the Resource Assignments Guide

Understanding Estimated and Planned Costs

A significant aspect of building a work breakdown structure for a project is to assign estimated costs to each project task so that you can calculate the total cost of the project. Obtaining accurate cost information is a prerequisite for creating a good project budget and providing a price quote to the customer.

Engineer to Order tracks estimated, planned, budgeted, and actual costs. The system stores all of these costs in the Work Order Master File Table (F4801), as well as the Work Order Master Tag File Table (F4801T). The user cannot enter or change actual costs on the Project Workbench. The system updates actual costs from the cost data that you provide as the project progresses, such as when you enter labor costs in the Hours and Quantities program (P311221). Budgeted cost is represented as a single Budgeted Cost column. When you accept the quote in the Project Workbench program (P31P001), the system copies the total estimated cost into this field. During the initiation phase of the project, you work with estimated and planned costs to determine the project budget and quote.

Estimated Costs

You can use various methods to enter estimated costs into the WBS. When entering estimated costs, you must also know whether you are entering them for descriptive tasks or manufacturing work order tasks. To obtain estimated costs, you can use the following methods:

- Enter costs manually in the Project Workbench program. You can use this method for any task in the project, but it might be most useful for assigning costs to summary tasks because no production costs exist for this task type.
- enable the system to enter standard costs. You can use this method only when the task is a work order task for a standard cost item (cost method 07) and standard costs exist for this item. When you enter the work order task into the WBS, the system automatically enters the standard costs in the appropriate fields in the detail area. The system assigns costs to the cost fields based on the cost classification scheme that is defined for the project.

The system summarizes the costs you enter on the parent level in the Estimated field in the Summarized Cost group box at the bottom of the form.

Planned Costs

To obtain planned costs for a manufacturing task, you need to attach a parts list and routing instructions to the work order. In the project attributes, you can specify that the system will enable you to obtain the cost information for the WBS by running this process without allocating inventory to the project at this point. You can also select to override previously entered estimated costs with planned costs in order to get the most up-to-date cost information. This step is necessary if you select to build your quote from the information in the estimated cost, not the planned cost, columns. To override estimated costs with planned costs, you can either use a setting in the project attributes or you can select an option from the Row menu on the Project Workbench form. To obtain planned costs, you can use the following methods:

- Enter costs manually on the Project Workbench. After you attach the parts list and routing to a work order, the resulting cost information overwrites the planned cost information that you entered on the Project Workbench form.
- Attach the parts list and routing to the work order to retrieve the current unit costs, as well as labor, setup, and machine rates, rolled up into the planned cost fields on the Project Workbench form. You can override these unit costs and rates manually in the Parts List (P3111) and Work Order Routing Instructions (P3112) programs. When you make changes to the costs, the system updates the planned costs.
- Update the planned cost fields from the estimated cost fields, if, at the time of quote acceptance, the planned cost fields are still blank.

The costs that you enter or retrieve from various sources roll up to parent order levels, regardless of whether the parent is a manufacturing work order or a descriptive task. The system summarizes the costs that you enter on the parent level in the Planned field in the Summarized Cost group box.

Prerequisites

Before you complete the tasks in this section:

- Ensure that the WBS includes all of the tasks that you want to schedule and that all tasks have durations assigned to them.
- Ensure that you have the processing option set to the type of scheduling that you want to take place automatically. If you do not set this processing option, you need to use the scheduling function in the Project Workbench program (P31P001) in order to get the durations for parent work orders.
- Ensure that you have set up cost classification information for the project that enables the cost that you enter to be stored in the correct cost fields.
- Turn on the Commit After Quote Accept option in the project attributes so that you can run the Order Processing program (R31410) without making inventory commitments.

Forms Used to Schedule Project Tasks and Assign Estimated and Planned Costs

Form Name	Form ID	Navigation	Usage
Work with Projects	W31P001B	Project Workbench (G31P12), Project Workbench	Review projects.
Project Workbench	W31P001C	On Work with Projects, select a project and click Select.	Enter estimated costs. If you enter work orders for items that have standard cost information, the system adds these standard costs to the task as estimated costs.
Process Task	W986162B	On Project Workbench, select a work order and do one of the following: From the Row menu, select Process Task to run the Order Processing program (R31410) and process orders for a task. From the Form menu, select Process Project to run the Order Processing program (R31410) and process orders for the entire project at once. From the Row menu, select Other and then Override Estimate to override estimated costs with planned costs.	Process orders for tasks or an entire project by running the Order Processing program. When the Order Processing program completes, the system updates the planned cost fields with the planned cost. Override estimated costs with planned costs. The system replaces the original values in the estimated cost fields with the values from the planned cost fields.
Task Dependencies	W31P001G	On Project Workbench, select Dependencies from the Form menu.	Define task dependencies.

Scheduling Project Tasks

Access the Project Workbench form.

To schedule tasks:

1. From the Form menu, select Scheduling and then either Forward Schedule or Backward Schedule.
2. In the detail area, review the adjusted planned start and planned end dates.

The date adjustment depends on the task dependencies that you defined, as well as the duration of each task.

If you set the scheduling processing option to forward or backward schedule tasks in real time, the planned start and end dates of any affected tasks are adjusted automatically when you change a date or duration.

Important! If you use forward scheduling, the system might move the original planned end date to accommodate the task durations. If you switch to backward scheduling, you need to reset the original planned end date; otherwise, the system back schedules tasks using the new planned end date.

Generating Quotes and Proposals

This section provides overviews of the quote and proposal generation process and online quotes and proposals and discusses how to:

- Set processing options for Project Quotes (P31P100)
- Work with quotes.
- Work with online proposals.

Understanding Quotes and Proposal Generation Process

After you create a project in the Project Workbench program (P31P001) and add task and cost information, you can use the Project Quotes program (P31P100) to develop a detailed and structured quote that you can present to the customer for approval. If the customer accepts the quote, your company can begin work on the project. If the customer requests changes, the system enables you to revise the quote information multiple times. You can also send multiple versions of the quote to the customer. For example, you can revise cost amounts or specify whether certain lines are included in the calculation. You can then resubmit the quote version to the customer until all requirements are satisfied and the customer grants the final approval to continue with the project. If the requested changes involve adding or deleting tasks from the project, you need to make these changes on the Project Workbench form and generate a new quote from the WBS.

By using the ETO quote generation programs, you can create a quote based on the estimated or planned costs that are associated with each task in the WBS of the project. The system enables you to import the WBS from the Project Workbench program into the quote program. The goal is to build a quote that communicates sufficient information to enable the customer to make an informed decision. Typically, the cost information in the Project Workbench program varies in its level of detail; in some cases, it contains too much detail information, and in other cases, it does not contain enough detail information for an effective quote. From the WBS, you can select the task information that you want to appear on the customer proposal. You can simplify the quote by omitting detail information that is more relevant to the actual work to be performed than to the cost estimates. Conversely, you might need to provide a detailed production cost breakdown, as well as margins that are applied to each line item. The quote program also enables you to combine individual task quote amounts into subtotals and totals, thus further enhancing the customer's ability to understand the cost of undertaking the project.

The quote process might consist of several iterations between your company and your customer. Each time that you incorporate changes into the quote, whether they are engineering-related or price-related, you create a new version of the quote to be able to track the changes to the quote. Finally, you use the quote information to generate a quote document that can be transmitted to the customer. If you use e-business processes, you can use the Online Proposals program (P31P101) to communicate with the customer using the Web.

When the customer accepts the quote, you also need to register this event in the Project Workbench program. By choosing Accept Quote from the Form menu on the Project Workbench form, you manually move the project to a Quote Accept status. After you accept the quote in the Project Workbench program, you can begin the planning phase of the project.

The system provides email communication mechanisms for information about quote status. You can set a processing option to automatically notify the manager when a quote status changes. You can also define an email distribution list for the project that would, for example, enable you to communicate with the customer about the quote.

Project Status Codes

PeopleSoft provides the following project status codes (UDC1e 31P/QP) that enable you to track the progress of various quote versions:

Project Status Code	Description
Pending	The default status when the quote is generated. At this stage, the sales person, for example, can change and refine the quote as often as needed because the quote has not been forwarded to the customer. The sales person can create a new version of a quote at this stage. Several quote versions for one project can have the Pending status. When the sales person creates a proposal from the quote and sends it to the prospective customer, the quote is advanced to an Active status to enable the customer to access the proposal document.
Active	When you consider the quote information to be sufficient for preparing a sales proposal for your customer, you can change the status of the quote to Active. This status enables you to generate a sales quote that you can send to the customer. The status that indicates that a quote has been sent to the customer for review. To distinguish between changes to the original quote, you can assign this status to several versions of the quote. When you make changes to an active quote, rather than creating a new version, the changes might become difficult to track. You can have multiple active quote versions that you can send to the customer. You must assign a different name to each version of the quote that has the same status so that the customer can identify them. This status means that the customer is reviewing the quote and negotiations are still ongoing. If the customer rejects the quote, the quote author can change the status of the quote to inactive.
Inactive	The status that indicates that the quote is no longer in effect. You cannot change inactive quotes. They exist only to be archived. You might want to enter a reason for inactivating the quote.

Project Status Code	Description
Current	The status that indicates that the customer has accepted a quote. Only one quote per project can have this status. When a quote has this status, you can create new quotes if the project needs to be renegotiated. In this case, you must change the status of the current quote to inactive, provide a reason for inactivating a quote, generate a new quote, and activate it.
Complete	The status that indicates that the project is completed or abandoned and subsequently closed. When a quote has this status, you can no longer create new quotes for the project or change the quote. Only one quote per project can have this status.

Understanding Online Quotes and Proposals

The ETO quote system also enables you to communicate and send quotes online directly to the customer, thus bypassing the step of generating paper proposals. You can send quotes that have an active status. You need to set up the customer with a level of security that enables the customer to sign on to the PeopleSoft EnterpriseOne portal to access the Online Proposals program (P31P101).

When the customer calls the program, the system displays all quote records, but not all of the fields in each record. For example, the original estimates from the Project Workbench program (P31P001) are not visible. The customer can respond to the quote by either accepting or rejecting it. The system uses the workflow system to communicate the customer's response to designated individuals, such as the project manager. The system also notifies the customer that you received the customer's response. This process can be iterative, which enables you to enter all required changes until the customer is satisfied and accepts the quote. When the customer communicates quote acceptance, you advance the status of the quote to Current and move the project in the Project Workbench program to a Quote Accept status.

Prerequisites

Before you complete the tasks in this section:

- Ensure that you have completed the WBS with required tasks, estimates, and schedule information
- Configure an email distribution list by using the Structure Revisions program (P0150) in the Address Book system, if you want to take advantage of the notification capabilities of the Project Quotes program (P31P100). See Parent/Child Relationships in the Address Book Guide for further information about setting up an email distribution list in PeopleSoft EnterpriseOne software.

Forms Used to Generate Quotes and Proposals

Form Name	Form ID	Navigation	Usage
Work with Project Quote	W31P100B	Quotes & Proposal (G31P11), Project Quotes Alternatively, you can access this program from the Form menu on the Project Workbench form.	Use this program to create multiple versions of quotes for a particular project, if needed. These quote versions are stored in the Project Quote Detail Table (F31P11).
Work with Project Quotes	W31P100B	From the Quotes & Proposal menu (G31P11), select Project Quotes. On Work With Project Quote, complete any of the filter fields, and then click Find.	Generate a sales quote.
Work with Project Quotes	W31P100B	From the Quotes & Proposal menu (G31P11), select Project Quotes. On Work With Project Quote, complete any of the filter fields, and then click Find.	Set up processing options for project quotes.

Setting Processing Options for Project Quotes (P31P100)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Display

These processing options control whether the system automatically includes quote records in the quote calculation and appearance, and whether you can override quote amounts on parent tasks.

1. Selected for Quote Calculation

Use this processing option to specify whether the system enters the selection value 1 in the Selected Calc column on the Project Quote Revisions form for all quote detail lines in the detail area. You can then deselect lines that you do not want to include in the quote. If you leave this processing option blank, the system does not automatically select the detail lines to appear on the quote.

2. Selected For Quote Display

Use this processing option to specify whether the system enters a selection value of 1 in the Selected Display column on the Project Quote Revisions form for all quote detail lines in the detail area. You can then deselect any line that you do not want to include. The system displays each selected line for which a calculated price exists in the Online Proposals program (P31P101) and

creates a sales quote line for each row. If the Display Calculated Totals option is activated, the system calculates the total quote amount.

Note. You cannot override any price for parent task rows.

If you leave this processing option blank, you must enter the selection value for each line that you want to include. When doing so, you can override the price for any task on any level, but bear in mind that the system will not calculate the total quote amount.

3. enable Override of Quote Amount on Parent

Use this processing option to specify whether you can override the Quote Amount on the parent task level. Values are:

Blank: Do not override the Quote Amount.

1: You can override the Quote Amount.

Default

This processing option specifies the currency that the system uses as the base currency.

1. Base Currency

Use this processing option to specify the base currency to use as a default value for a project that is not associated with a business unit.

Process

These processing options control whom the system notifies regarding the status of a quote.

1. Notify Manager on Quote Status

Change to Active

Use this processing option to specify whether the manager should be notified when the quote status changes. Values are:

Blank: Do not notify the manager.

1: Notify the manager.

2. Notify Manager on Quote Status

Change to Inactive

Use this processing option to specify whether the manager should be notified when the quote status changes. Values are:

Blank: Do not notify the manager.

1: Notify the manager.

3. Notify Manager on Quote Status

Change to Current

Use this processing option to specify whether the manager should be notified when the quote status changes. Values are:

Blank: Do not notify the manager.

1: Notify the manager.

4. Notify Customer on Quote Status

Use this processing option to specify whether the customer should be notified when the quote status changes to active. Values are:

0: Do not notify the customer.

1: Notify the customer.

- | | |
|---------------------------------------|--|
| 5. Email Distribution List | Use this processing option to specify the distribution list for the project alert. |
| 6. Organization Structure Type | Use this processing option to specify the distribution list for the project alert. |

Versions

These processing options control which versions the system uses when you call the following programs from the Project Quotes program (P31P100).

- | | |
|---------------------------------------|---|
| 1. Sales Quotes Entry (P4210) | Use this processing option to specify the version of the Sales Order Entry program (P4210) to run to generate the sales quote. If you leave this processing option blank, the system uses version ZJDE00018. |
| 2. Document Generator (P00391) | Use this processing option to specify which version of the Generated Documents Revisions program (P00391) to use for generating proposals. If you leave this processing option blank, the system uses version ZJDE0001. |

Creating a Quote for a Project

Access the Work with Project Quote form.

To create a quote for a project:

1. On Work With Project Quote, complete the Project Number field:
2. Click Add.
3. On Add Quote, select Estimates or Planned to indicate the type of costs on which the quote will be based:
4. On Project Quote Revisions, select the Quote Info and complete the fields.
5. select the People and review the information in the fields.

Typically, you have a customer number for a quote. You enter the customer when you define the project header information.

6. Review the information in the detail area and enter or change information as needed, such as the information in the Estimated Override fields.

You use the Estimated Override field to enter a quote amount that is different from the original estimate. In this case, the system uses this information, rather than the original estimate, for the calculation. The system uses the margin percentage that you enter to calculate a markup for the estimated amount.

7. For each quote record, use the Selected Calc field to specify whether you want to include the record in the quote total calculation.
8. For each quote record, use the Selected Display field to specify whether the system creates a sales quote record from this record.
9. When you are satisfied with the quote information, select the Project Info and click the Display Calculated Total option to calculate the quote total:

The Total Quote Amount field for the project header displays the calculated quote total.

10. To update the quote status, select the Quote Info and update the Quote Status value in the following field.

Note. If you select to assign an Inactive status to the quote, the Reason Code becomes active to enable you to provide a reason for inactivating the quote.

11. Click OK.

Estimates	A code that specifies whether the system creates a new quote based on the estimated or the planned costs of an existing project. Values are: 1: Create a quote from estimated costs. 2: Create a quote from planned costs.
Planned	A code that specifies whether the system creates a new quote based on the estimated or the planned costs of an existing project. Values are: 1: Create a quote from estimated costs. 2: Create a quote from planned costs.
Quote Version	This field holds a number that uniquely identifies a quote version. During quote calculation, the system creates many quote versions, but it accepts only one version.
Quote Effective From	The date that a quote is in effect. The default value is the current system date.
Quote Effective Thru	The date that a quote is no longer in effect. The default value is the current system date.
Estimated Override	An amount that the system budgets for a project phase or task. You complete this field if you want the system to use the estimated amount override.
Margin Percent	The system uses the margin percent in the calculation of the quote amount. The quote amount calculation is the estimated amount multiplied by the margin percent.
Selected Calc	A code that indicates whether the system includes a row in the price calculation in the Quote Generation program. Values are: <i>Blank:</i> The system does not include the cost in the Quote Calculation program. 1: The system includes the cost in the Quote Calculation program.
Selected Display	A code that specifies whether the system displays a row with a calculated price in the EPM - Online Proposals program (P31P101) and creates a sales quote line for the row. Enter 1 for each row that you want to include.
Display Calculated Total	A code that determines whether the system displays calculated quote totals in the detail area. If this option is checked, the system displays a total quote amount for each selected task.
Quote Status	A user defined code (31P/QP) that indicates the status of a project quote.

Generating a Sales Quote

Access the Work with Project Quote form.

To generate a sales quote:

1. select the quote version that you want to work with and click Select.

Note. Verify that the quote version that you select has an Active status; if it is still in Pending status, you cannot generate a sales quote.

2. On Project Quote Revisions, select Generate Quote from the Form menu.

The system generates a sales quote number.

3. Click OK.
4. select Sales Quote from the Form menu.
5. On Customer Service Inquiry, click Find.

The sales quote that you generated from the Project Quotes program (P31P100) appears in the detail area of the Sales Order Entry program (P4210) with all of the records from the project quote. The system generates the sales quote records based on the line types that are assigned in the Project Quotes program.

Important! Even though you can make changes to the quote in the Sales Order Entry program, it is recommended that you limit such changes. In order for the quote information in both programs to be consistent, make changes in the Project Quotes program only. The quote amount from the Project Quotes program always overrides the quote price on the sales quote detail record.

See Also

Working with Quote Orders in the Sales Order Management Guide for more detailed information about working with sales quotes

Generating a Sales Proposal During Order Entry in the Sales Order Management Guide for more detailed information about using the Generated Document Media Object Definition program (P0039).

CHAPTER 5

Using Project Planning with Engineer to Order

This chapter provides an overview of the project planning process and discusses how to:

- Load project budgets to the job cost budget.
- Use Project Requirements Planning (PRP).

Understanding Project Planning with ETO

Typically, the project planning phase begins after the customer accepts the project quote and you run the Accept Quote process for the project. To run the Accept Quote process, you select the Accept Quote option from the Form menu on the Project Workbench form. As a result, the system turns on the Quote Is Accepted option on the Project Status on the Add/Revise Project form.

The project planning phase consists of all of the activities that are required to convert the project information, which you collected and defined as the basis for the quote to the customer, into a plan that can be executed during the project execution and control phase. During the initiation phase of a project, you might not need or be able to provide all of the detail information for tasks, work orders, schedules, resources, and budgets. During the planning phase of a project, the project manager can refine the project information. You can enter transactions for the project tasks and make financial and inventory commitments either before or after you run the Accept Quote process. If you turn on the Commit After Quote Accept option, no commitments are made before you run the Accept Quote process.

Note. The system automatically creates financial commitments for purchase items, provided that the line type is set up to do so and the document type is included in UDCle 40/CT (Commitment Document Types).

To create financial commitments for a manufacturing work order, you must turn on the Interface to Job Cost option for the project.

If you turn on the Interface to Job Cost option in the project attributes, the system uploads the project planned costs from the Project Workbench form to the job cost original budget during the Accept Quote process.

You can run the MRP/MPS Requirements Planning program (R3482), based on the task information on the work breakdown structure, to generate the detail messages that the system uses to generate purchase orders and work orders for replenishment. You can create purchase orders manually for items on a parts list. You can also create purchase orders for items that are not consumed by a manufacturing work order on the project, but that are sold to the customer as part of the project.

If you turn on the Interface to Job Cost option in the project attributes and then run the Accept Quote process, you can continue to refine and plan the project information. You can proceed to the next project stage by choosing the Freeze JC Budget option from the Form menu. As a result, the planned amounts from the work breakout structure are loaded into the original budget one last time, and the budget total is frozen.

Note. Project activities are frequently iterative and do not necessarily proceed in the sequence documented here.

Prerequisite

Turn on the Interface to Job Cost option for the project if you want to use the features of the Job Cost system and create financial commitments for manufacturing work orders.

Loading Project Budgets to the Job Cost Budget

This section provides an overview of loading project budgets to the job cost budget, and discusses how to:

- Run the Upload Job Cost Budgets program
- Set processing options for the Job Cost Budgets program.

Understanding the Upload to Job Cost Budget Process

You use this program to upload planned costs from the Project Workbench program (P31P001) to the Job Cost system. You can activate the program from the menu any time after the quote is accepted to synchronize the Job Cost budget information with the cost information from the project. During two phases of the life of the project, the Project Workbench program runs this program automatically. At the Quote Accept phase, the planned costs for the project are uploaded as the original budget. At the Freeze Cost Budget phase, the original budget is uploaded one final time, if you set the processing option to upload the original budget. When the job cost budget is locked, you can use the Upload Job Cost Budgets program (R31P800) only to upload revisions.

Running the Upload Job Cost Budgets Program (R31P800)

From the Periodic Processing menu (G31P20), select Upload Job Cost Budgets.

To load and update job cost budgets, you use AAI 3130 (Subassembly/Finished Goods). This AAI maps the planned costs from the Project Workbench program to the Job Cost system.

Note. The document type that you specify in the processing options must match the document type in the AAI.

To run this batch program, you must turn on the Interface to Job Cost option in the project attributes; otherwise, the system issues an error message. You can run this program in proof mode to compare the job cost budget to the changes that you applied to the project. When you run the program in final mode, the system updates the Job Cost Tables with the budget changes.

Setting Processing Options for Upload Job Cost Budgets (R31P800)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Display

Select the Display tab.

1. Display Inactive Accounts

Display the inactive accounts in a range of accounts.

Blank: Do not display inactive accounts

I: Display inactive accounts

Edits

Select the Edits tab.

1. Default Cost Code Range

Display the beginning cost code (subsidiary) account in a range of accounts. Leave this range blank to include all accounts.

From Cost Code

Thru Cost Code

2. Default Cost Type Range

Display the beginning cost type (object) account in a range of accounts.

From Cost Type

Thru Cost Type

3. Specify Lowest Account Level of Detail (3 - 9)

Use this processing option to specify the lowest account level of detail for summarizing and classifying accounts in the general ledger. Level 9 is the most detailed and Level 1 is the least detailed. Levels 1 and 2 are reserved for company and business unit totals. Levels 8 and 9 are reserved for job cost posting accounts in the Job Cost system.

Process

Select the Process tab.

1. Mode

Use this processing option to specify whether you want to run the program in proof mode or in final mode. If you run the program in proof mode, the system generates a report, but does not update any tables. Values are:

I: Final

Blank: Proof

2. Budget Amount Ledger Type

Enter the Budget Amount Ledger Type to update. Leave blank to update JA. This is the default. The Budget Unit Ledger Type is determined automatically as the Amount Ledger ending in U, therefore, the ledger type is JU.

I: Final

Blank: JA

3. Job Cost Revisions Bypass GL Date Editing

specify whether to bypass GL date editing. If the system does not edit the GL date, you can enter a later or earlier GL date without receiving error messages or warnings. Values are:

- Blank:* Do not bypass GL date editing
1: Bypass GL date editing
- 4. Job Cost Original Budget Update** Control update options of budgets. F0902 records must exist for options 2 and blank. Values are:
1: Update current year only
2: Update all years
Blank: Update current and future years
- 5. Document Type** Use this processing option to specify the document type required as part of the key to AAI table 3130 (Sub-Assembly/Finished Goods). The default document type is IC (inventory completion). The other key components (company, GL class code and order type) come from the project. While the business unit and subsidiary are defined on the project, you use this AAI to retrieve the object account needed for the job cost upload.

Audit Trail

The options on this will only apply when uploading budget revisions.

- 1. Document Type** Use this processing option to specify the document type required as part of the key to AAI table 3130 (Sub-Assembly/Finished Goods). The default document type is IC (inventory completion). The other key components (company, GL class code and order type) come from the project. While the business unit and subsidiary are defined on the project, you use this AAI to retrieve the object account needed for the job cost upload.
- 2. Job Cost Budget Audit Trail Creation** Use this processing option to specify what type of Account Ledger detail records (F0911) the system creates when you enter budget revisions. PeopleSoft recommends that the system create an F0911 record for each change unless there are space limitations. Values are:
Blank: Create one audit trail record per period change.
1: Create an audit trail record for each change.
2: Do not create audit trail records.
- 3. Reference Number** Enter a number that provides an audit trail for specific transactions, such as an asset number, a supplier number, or a document number.
- 4. Override Explanation** Provide a description, remark, explanation, name or address.

Using Project Requirements Planning

This section provides an overview of Project Requirements Planning (PRP) and discusses how to:

- Generate a multi-plant requirements plan for a project.
- Review replenishment orders for multi-plant PRP.
- Process messages for a multi-plant PRP.
- Plan and schedule.

Understanding Project Requirements Planning

Project Requirements Planning is an option within the MRP/MPS Requirements Planning program (R3482) that you use to generate replenishment schedules for production orders and components for an end item that are used in a project.

PRP recognizes the shippable items from the project as the supply of the end item and uses this supply to drive the demand for its components. Thus, the project supplies its own demand.

The dependent demand is generated by the bill of material (BOM) structure or by the work order parts list that is associated with the end items. Inventory that is acquired either by purchase order receipts or work order completions for these project-specific items should be used only for meeting the project's demand.

Project demand and supply is regarded as *stand-alone* or *independent* so that any additional demand or supply from forecasts, sales orders, work orders, or purchase orders on that end item does not interfere with the requirement from the project.

Setup Considerations for PRP

To successfully plan a project by running the PRP option of the MRP/MPS Requirements Planning program (R3482), you must verify certain system setup information.

In the Item Master program (P4101), the stocking type for project-specific items is defined with a special handling code of P for project. PRP uses the stocking type to denote that the item is specific to a project.

Important! An item cannot be identified as both a project-specific and a standard item within the same branch/plant.

For multilevel bills of material, when an item is identified as a project-specific item, all parent items in the hierarchy, including the end item, should also be project-specific items. Otherwise, the originating order requirements (pegging records) cannot be linked.

PRP uses the low-level code to identify the lowest level at which an item resides in a bill of material structure. The low-level code is assigned to an item when it is added to a manufacturing bill of material (BOM). An item can reside on a manufacturing BOM, the project work breakdown structure, or both. Because the work breakdown structure is similar to a BOM structure but is not a BOM, the system requires a way to assign an item's low-level code when you use it on a given project. To assign correct low-level codes, run the Bill of Material Structure Analysis program (R30601) with the processing option that is set to consider items in projects.

PRP identifies the supply for project-specific end items on the work breakdown structure when the Shipment field contains the value 1.

Note. Initially, when you add an end item to the work breakdown structure, do not add any subassembly items to the work breakdown structure. PRP uses the parent end item's supply work order to explode demand to the subassembly and component items. After processing a work order message, the system updates project-specific subassembly items on the work breakdown structure.

You can also set up supply and demand inclusion rules for PRP. Consider the statuses of the manufacturing work orders on the work breakdown structure when you use supply and demand inclusion rules for PRP.

Project Requirements Planning Generation

When you run the PRP option of MRP/MPS Requirements Planning (R3482), the system generates a replenishment schedule for a project.

Demands for projects are given preference when the system distributes on-hand inventory. The Project Commitment Detail Table (F410211) stores the detail records for project specific inventory items. PRP uses this table to determine what project specific inventory to allocate to a given project.

The project supply or availability for an end item is stored in the Work Order Master Tag File Table (F4801T) like a typical work order, but the project number is populated.

Project Requirements Planning Output

Once the Project Requirements Planning (PRP) option of MRP/MPS Requirements Planning (R3482) runs successfully, you can review output information in the system.

The user-defined code table 34/QT contains the following quantity types that are specific to project supply and demand:

Quantity Type	Description	Unadjusted/Adjusted
+BAPU	Project Beginning Balance Unadjusted	Unadjusted
+POPU	Project Purchase Orders	Unadjusted
+WOPU	Project Work Order	Unadjusted
-FWOPU	Project Firm Work Order	Unadjusted
+BAP	Project Beginning Balance	Adjusted
+IRP	Project Receipt Routing	Adjusted
+POP	Project Purchase Orders	Adjusted
+WOP	Project Work Order	Adjusted
-PWD	Project Work Order Demand	Adjusted
-FWOP	Project Firm Work Order	Adjusted
-PWOP	Project Plan Work Order	Adjusted
-SOP	Project Sales Order	Adjusted

Planning messages for project specific subassemblies and components include the project number and parent work order information. The project number can be used to filter on project specific planning messages in the Message Summary (P3401) and MRP/MPS Detail Message Revisions (P3411) programs. Work orders and purchase orders that are created from planning messages contain the project number.

When creating pegging records, PRP stores the project number in the MPS/MRP/DRP Lower Level Requirements File Table (F3412) to indicate the origination of the requirements resulting from the project. Orders that are pegged to the project are only used for the given project.

The MPS/MRP/DRP Summary Filele (F3413) does not contain the project number, but project specific quantity types are used by PRP to calculate and display project specific quantities.

The Supply and Demand Inquiry program (P4021) has additional grid columns to display the project demand and supply. You must set the processing option to enable PRP display.

Project Requirements Planning for Multiple Plants

Project requirements planning, like MRP in general, can encompass more than one plant or facility. The project-specific components that are on the parts list for a work order on the work breakdown structure might be located at a branch/plant other than the plant in which the project is being run. In this case, you must link the project-specific item at the other branch/plant to the project branch/plant by defining an interbranch relationship.

Components that come from a different branch/plant are treated as purchased items. To specify that the supply branch should meet the entire demand, set up the branch relationship so that the supply branch is defined with a source percentage of 100 percent.

When you run the Master Planning Schedule - Multiple Plant program (R3483), it creates messages for replenishment orders. When you process these messages, the system creates transfer orders. Transfer orders satisfy project demand for components by using inventory from the supply branch. To meet the demand at the supply branch, the system creates work orders.

Prerequisites

Ensure that the processing option for project planning in the Master Planning Schedule - Multiple Plant program (R3483) is set to include supply and demand for project-specific items.

Set up a branch relationship between the project demand plant and a supply branch/plant.

See Also

Multifacility Planning in the Requirements Planning Guide for general information about material requirements planning throughout multiple plants

Setting Up Supply and Demand Relationships in the Requirements Planning Guide for information about defining the relationship between demand and supply branch/plant

Processing options for R3483, R3411, P4021 (setting them up) in the Requirements Planning Guide

Forms Used to Generate Project Requirements Plans

Form Name	Form ID	Navigation	Usage
MRP Regeneration	W98305WA	From the Multi-Facility Planning menu (G3423), select MRP Regeneration.	Generate a multiplant requirements plan for projects.
Work with Detail Messages	W3411D	From the Multi-Facility Planning Daily Operations menu (G3414), select Detail Message Review. On Work With Detail Messages, complete the Item Number required field, and then click Find:	Review messages for a multiplant PRP
Detail Message Revisions	W3411B	On Work With Detail Messages, select a message and then select Message Revision from the Row menu.	Process messages for a multiplant PRP.
Work with Supply and Demand	W4021B	From the Multi-Facility Planning Daily Operations menu (G3414), select Supply/Demand Inquiry.	Review supply and demand for multiplant PRP.

Generating a Multiplant Requirements Plan for Projects

On engineer-to-order projects, the parts list lines on a project work order (nondescriptive task) determine the demand for components. In an interbranch environment, the supply branch meets the demand for a particular component.

When you run the Master Planning Schedule - Multiple Plant program (R3483), the system recognizes the one-to-one relationship between a project's supply and demand, and creates transfer order messages for the component on the parts list. The resulting messages include the project number and indicate by the task number in the Source Demand field which work order on the WBS generated the project replenishment message.

Reviewing Replenishment Orders for Multiplant PRP

You can use the MRP/MPS Detail Message Revisions program (P3411) to review the messages that the system generated. The time series uses quantity type IDP (Project Interplant Demand) to display project demand that a supply branch meets. You review this information in the MPS Time Series program (P3413). The IDP quantity type is defined in the quantity types UDCle (34/QT).

After you generate replenishment order messages for project-specific items, you continue the process by reviewing the messages and processing them into transfer orders if your supply branch/plant for the order item is different from the demand branch/plant.

When you review messages in the MRP/MPS Detail Message Revisions program (P3411), you can filter the display by project number, in addition to the other filter options, which enables you to work only with order messages that pertain to a particular project. You can use this program to modify a message or respond to it by creating a transfer order.

You can use the Supply and Demand Inquiry program (P4021) to determine the current state of the inventory for your project. Project supply and demand, including replenishment transfer orders, appears separately on the Work With Supply and Demand form. Project supply can only be used to meet project demand. In turn, project demand uses up project supply before it uses general supply that is not dedicated to a particular project.

See Also

Requirements Planning Output in the Requirements Planning Guide for information about the time series and working with order messages

Reviewing MRP Supply and Demand in the Requirements Planning Guide for information about using the Supply and Demand Inquiry program (P4021)

Processing Messages for a Multiplant PRP

Access the Detail Message Revisions form.

To process a message, select Process Message from the Row menu. To view the orders that the system generates, select Processed Messages from the View menu.

Description	Glossary
Item Number	A number that the system assigns to an item. It can be in short, long, or third item number format.
Project Number	A number that identifies an ETO project in the system. The project must be set up in the Add/Revise Project program (P31P011).
Planner	The address number of the material planner for this item.
Planning Family	A user defined code (41/P4) that represents an item property type or classification, such as commodity type or planning family. The system uses this code to sort and process like items. This field is one of six classification categories available primarily for purchasing purposes.

Description	Glossary
Buyer	The address number of the person responsible for setting up and maintaining the correct stocking levels for the item.
Planning Code	A code that indicates how Master Production Schedule (MPS), Material Requirements Planning (MRP), or Distribution Requirements Planning (DRP) processes this item. Valid codes are: • 0 : Not Planned by MPS, MRP, or DRP • 1 : Planned by MPS or DRP • 2 : Planned by MRP • 3 : Planned by MRP with additional independent forecast • 4 : Planned by MPS, Parent in Planning Bill • 5 : Planned by MPS, Component in Planning Bill These codes are hard coded.

Reviewing Supply and Demand for Multiplant PRP

Access the Work with Supply and Demand form.

Description	Glossary
Item Number	A number that the system assigns to an item. It can be in short, long, or third item number format.
Branch/Plant	An alphanumeric code that identifies a separate entity within a business for which you want to track costs. For example, a business unit might be a warehouse location, job, project, work center, branch, or plant. You can assign a business unit to a document, entity, or person for purposes of responsibility reporting. For example, the system provides reports of open accounts payable and accounts receivable by business unit to track equipment by responsible department. Business unit security might prevent you from viewing information about business units for which you have no authority.
Thru Date	The date that an item is scheduled to arrive or that an action is scheduled for completion. --- FORM SPECIFIC --- Promise Date represents the Planned Effective Date for work orders and purchase orders, Requested Date for sales orders, Lot Effective, and Lot Expiration Date for lots Forecast Date for forecast.

Description	Glossary
UOM	A user defined code (00/UM) that indicates the quantity in which to express an inventory item, for example, CS (case) or BX (box).
Project Number	A number that identifies an ETO project in the system. The project must be set up in the Add/Revise Project program (P31P011).
Project Supply	This field displays any transfer orders that you created to meet project demand from a different branch/plant.

Planning and Scheduling

After you set task durations and task dependencies, you can use the Project Workbench program (P31P001) to backward and forward schedule the tasks on the work breakdown structure.

Forward scheduling enables the project manager to schedule tasks from a given start date. With forward scheduling, tasks are scheduled according to their duration and dependencies so that each task begins on its earliest possible start date. Because each task begins on its earliest possible start date, situations known as *project float* can be created. Project float is a situation in which the project manager has the authority to decide, based upon project conditions, when the task should begin.

Requirements Planning, which generates messages that recommend work order start dates based on backward scheduling, usually agrees with dates that are created by the backward-scheduling function of the Project Workbench program. With backward scheduling, a project manager can enter an absolute date by which the project must finish and schedule backward to determine the start date on which it must begin.

For both forward and backward scheduling, the Project Workbench program uses the task dependencies that you establish for each task to suggest correct start and end dates.

Creating Orders for a Project

This section provides an overview of creating orders for a project and discusses how to:

- Enter a purchase order for a project.
- Enter purchase order information using the project workbench.
- Create related orders for a project.
- Revise a related order for a project.
- Set processing options for the Related Orders program.
- Run the Related Order Cost program.
- Attach an existing work order to a project.

Understanding Creating Orders for a Project

In response to planning messages, you can generate replenishment orders (purchase orders and work orders) for project-specific items. Subassembly work orders that you create for a project-specific item are automatically placed on the work breakdown structure. You can also attach existing work orders to a project task.

Depending on your business processes, you can create project-specific purchase orders from the parts list line for a particular item. You can also create a purchase order in the Enter Purchase Orders program (P4310) and then use the Work Order Parts List program (P31P201) to search for the item that requires a purchase order.

In addition to purchasing material for project work orders, you can procure items that are not consumed by work orders but are resold directly to the customer as part of the project deliverables.

Purchasing Project Material

As part of the manufacturing process, you have to purchase the raw materials that are used to produce the end item. Engineer to Order offers several methods for creating purchase orders for raw material. In addition to generating work orders from planning messages, you can also enter purchase orders manually, either from the parts list for the work order or directly from the Enter Purchase Orders program (P4310).

When you enter a purchase order for a project-specific stock item, the system creates a financial commitment for the purchase order by updating the Account Balances Table (F0902) with the committed amount. At the same time, it removes the manufacturing encumbrance, if such an encumbrance exists at the time that you enter the purchase order. The system creates only manufacturing encumbrances, provided that you have turned on the Interface to Job Cost option for the project. Finally, the system records the purchase order transaction in the P.O. Detail Ledger File - Flexible Version Table (F43199).

If the quote has already been accepted, you can call the Work Order Parts List program (P3111) for a particular work order from the Project Workbench form and access the Enter Purchase Orders program from it. Before you run the Accept Quote process, you can enter the purchase directly in the Enter Purchase Orders program and access the Work Order Parts List program (P31P201) to select the item for the purchase order.

Purchasing Project Items for Resale

Project deliverables can include items that your company does not manufacture. In this case, you purchase them from another source and resell them to the customer for your project. The items that you buy are not component items that are consumed in a manufacturing work order. You can have them shipped directly from the supplier to the customer. You can also purchase these items from another branch and transfer them to the project branch. Alternatively, you can purchase and stock these items as project-specific inventory until you send them to the customer together with other project deliverables.

In the Project Workbench program (P31P001), you use descriptive (or summary tasks) to create and track project-specific purchased items. You can track all related orders, such as direct ship, transfer, sales, or purchase orders.

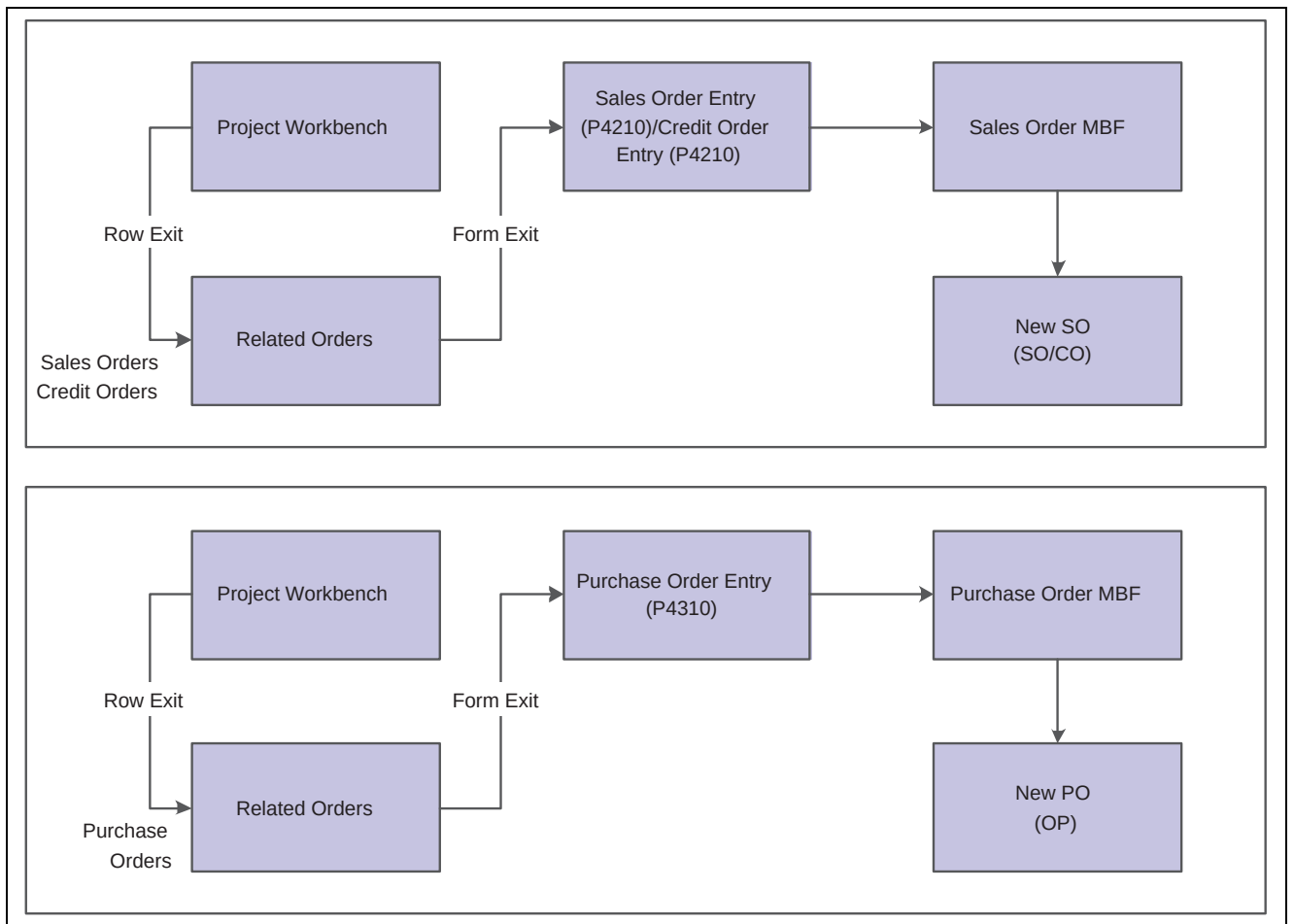
To link a descriptive task in the project to its related orders, the system stores order information in the Related Order Cross Reference Table (F4080). This table contains the descriptive task order number and order type and detail information from the related orders, such as document type, extended costs, and order status (for information only).

You use the Related Order program (P31P204) to create and track related orders for a project's descriptive task. You can access this program from the Project Workbench program or from the menu.

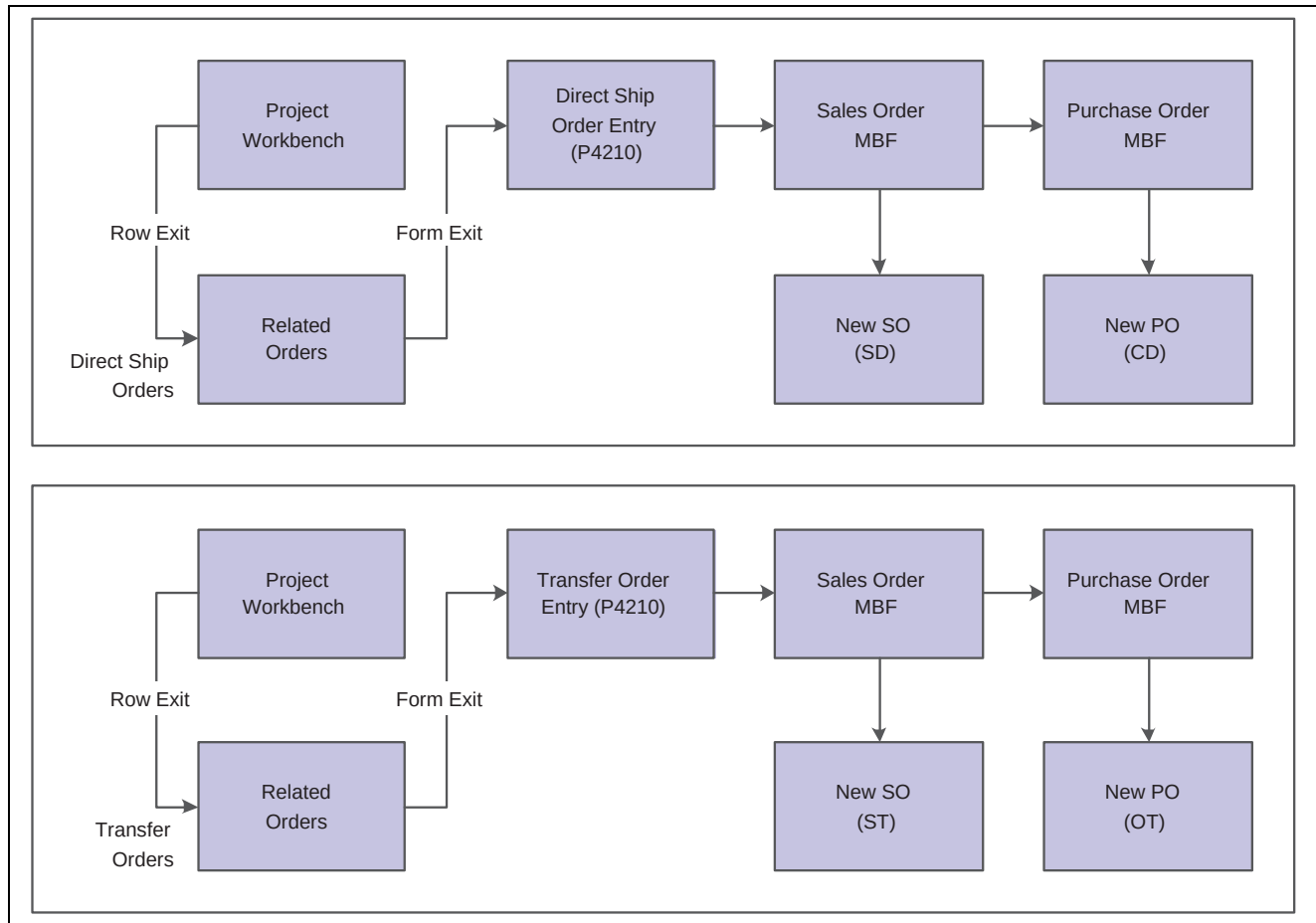
To create a related order, the header of the Work with Related Orders form must contain a valid project number, a descriptive task order number, and an order type. You use the Form menu to access versions of the order entry programs for direct shipping, transferring orders, creating sales orders, creating credit orders, or creating purchase orders. The system passes the project number to the sales order and purchase order programs.

If you want to review or revise a related order, you can access the order information by choosing an order entry program from the Row menu. On the Work With Related Orders form, a tree structure displays the unique items on all the related orders. The individual orders are displayed in the detail area.

The following graphic illustrates the cycle flow for the different types of orders that are created in the Related Orders program:



Related Orders for ETO (1 of 2)



Related Orders for ETO (2 of 2)

Note. You cannot cancel or close a descriptive task that has related orders attached to it unless the order activity status for all related orders is 999 (closed). The Related Order Cross Reference Table (F4080) retrieves the order status from the Sales Order Detail File Table (F4211) and the Purchase Order Detail File Table (F4311).

Updating Related Costs

You can use the Update Related Costs program (R31P405) to update the planned and actual costs for a project's related orders and post them to the Work Order Master Tag File Table (F4801T).

This report includes project information from the Project Attributes Table (F31P01), as well as task information and the planned and actual costs that are being uploaded to the work breakdown structure. You print only the task and cost information, if planned and actual costs were accumulated for the descriptive task.

To accumulate planned and actual costs for a particular descriptive task, you use the Accumulate Costs option from the Form menu on the Work with Related Orders form. Using the Related Order Cross Reference Table (F4080), the system selects the costs for the order using the following tables and calculations:

Costs	Table	Field
Planned Cost	Purchase Order Detail File (F4311)	Extended Amount (AEXP) from the purchase order detail line
Actual Cost	Purchase Order Receiver File (F43121)	Amount Paid to Date (APTD) from purchase order detail lines with match type 2 (after voucher match)

The calculated planned and actual costs are stored in the Work Order Master Tag File Table as the material costs of the purchased item.

Attaching Existing Work Orders to a Project

Engineering to Order enables you to attach existing work orders to a project. You can initiate a search for existing work orders from the Project Workbench form in the Project Workbench program (P31P001). Any work order that you want to attach to a project must meet the following conditions:

- It is not part of another project.
- No issues have been performed for any item on the work order's part list.
- No hours and quantities have been posted for the work order.
- If the work order is a configured work order, it must be a top-level work order. All the children of the work order will also be attached.

See Also

Working with Orders for Configured Items in Engineer to Order in the Base Configurator Guide for more information about attaching configured work orders

Forms Used to Create Orders for a Project

Form Name	Form ID	Navigation	Usage
Work With Order Headers	W4310I	From the Purchase Order Processing menu (G43A11), select Enter Purchase Orders. On Work With Order Headers, click Add.	Enter purchase order information.
Project Workbench: Work with Projects	W31P001B	From the Project Workbench menu (G31P12), select Project Workbench. On Work with Projects, complete any of the filter fields and click Find.	Enter purchase order information using the Project Workbench.
Work with Projects	W31P001B	From the Project Workbench menu (G31P12), select Project Workbench. On Work with Projects, complete any of the filter fields and click Find.	Create related orders for a project.
Work with Projects	W31P001B	From the Project Workbench menu (G31P12), select Project Workbench. On Work with Projects, complete any of the filter fields and click Find.	Revise a related order for a project.
Update Related Costs	W98305WA	From the Project Workbench menu (G31P12), select Update Related Costs.	Update related costs.

Entering a Purchase Order for Project Material

Access the Work With Order Headers form.

To enter a purchase order for project material:

- On Order Header, complete the following fields, and then click OK:
 - Supplier
 - Branch/Plant
 - Order Date
 - Requested
 - Promised Delivery
- On Order Detail, complete the following fields in the detail area:
 - Item Number
 - Quantity Ordered
 - Ln Ty

3. Select Parts List from the Row menu.
4. On Work With Work Order Parts List, complete the following fields and click Find:
 - Project Number
 - Order Number
 - Or Ty

Note. Optionally, you can also search by item and branch/plant.

5. select the record that contains the work order for your parent item, and then click Select.
6. On Order Detail, the project number from the work order now appears in the project number field for the purchase order detail line.
7. Click OK.

Entering Purchase Order Information Using the Project Workbench

Access the Project Workbench: Work with Projects form.

To enter a purchase order for project material from the Project Workbench:

1. select a project and click Select.
2. On Project Workbench, select a work order and select Manufacturing Task and then Mfg Parts List from the Row menu.
3. On Work Order Parts List, select the project-specific part for which you want to create a purchase order and select Create PO from the Row menu.

Note. A supplier record must exist before you can create a purchase order.

The purchase order information (order number, order type and line number) appears in the parts list line for the item.

Creating Related Orders for a Project

Access the Update Related Costs form.

To create a related order for a project:

1. select a project and click Select.
2. On Project Workbench, select the descriptive task for which you want to create a related order, and select Other and then Related Orders from the Row menu.
3. On Work with Related Orders, select the type of order that you want to create from the Form menu.
4. Complete the order information fields in the order entry program that you selected.
5. Click OK to save the order information.
6. Click Cancel to return to the Work with Related Orders form.
7. On Work with Related Orders, click Find to review the order that you added.
8. Click Cancel to return to Project Workbench.

9. Click OK.

Revising a Related Order for a Project

Access the Work with Projects form.

To revise a related order for a project:

1. select a project and click Select.
2. On Project Workbench, select the descriptive task for which you want to revise a related order and select Other and then Related Orders from the Row menu.
3. On Work with Related Orders, select the order line that you want to revise, and then select an order entry program from the Row menu.
4. Revise the order information fields in the order entry program that you selected.
5. Click OK to save the order information.
6. Click Cancel to return to the Work with Related Orders form.
7. On Work with Related Orders, click Find to view your changes.
8. Click Cancel to return to Project Workbench.
9. Click OK.

Setting Processing Options for the Related Orders Program (P31P204)

From the Project Workbench menu (G31P12), select Related Order.

Versions

These processing options control which version of the following order entry programs the system uses when you call them from the Work with Related Orders form.

- | | |
|-------------------------------------|--|
| 1. Direct Ship Order (P4210) | Use this processing option to specify which version of the Sales Order Entry program (P4210) the system uses when you select the Direct Ship row exit on the Work with Related Orders form. If you leave this processing option blank, the system uses version ZJDE0005, which controls how the program displays information.

<i>Blank: ZJDE0005</i> |
| 2. Transfer Order (P4210) | Use this processing option to specify which version of the Sales Order Entry program (P4210) the system uses when you select the Transfer Order row exit on the Work with Related Orders form. If you leave this processing option blank, the system uses version ZJDE0007, which controls how the program displays information.

<i>Blank: ZJDE0007</i> |
| 3. Sales Order (P4210) | Use this processing option to specify which version of the Sales Order Entry program (P4210) the system uses when you select the Sales Order row exit on the Work with Related Orders form. If you leave this processing option blank, the system uses version ZJDE0001, which controls how the program displays information. |

Blank: ZJDE0001

- 4. Purchase Order (P4310)** Use this processing option to specify which version of the Purchase Orders program (P4310) the system uses when you select the Purchase Order row exit on the Work with Related Orders form. If you leave this processing option blank, the system uses version ZJDE0030, which controls how the program displays information.

Blank: ZJDE0030

- 5. Credit Order (P4210)** Use this processing option to specify which version of the Sales Order Entry program (P4210) the system uses when you select the Credit Order row exit on the Work with Related Orders form. If you leave this processing option blank, the system uses version ZJDE0002, which controls how the program displays information.

Blank: ZJDE0002

Running the Update Related Order Costs Program

From the Project Workbench menu (G31P12), select Update Related Costs.

Attaching an Existing Work Order to a Project

To attach an existing work order to a project:

1. Access the Work with Projects form.
2. select a project and click Select.
3. On Project Workbench, use the tree structure to select the parent task to which you want to attach an existing work order.
4. From the Row menu, select Attach Work Order.
5. On Work Order Search, complete the Order Number field to search for the work order that you want to attach to the project:
6. select the work order and click Select.

The selected work order appears in the detail area of the Project Workbench form under its parent task.

7. Click OK to save the work order to work breakdown structure.

Setting Up Project Commitments

This section provides an overview of project commitments and discusses how to:

- Review inventory commitments for project work orders.
- Run the Commitment Rebuild program.
- Set processing options for the Commitment Rebuild program (R31P993).

Understanding Project Commitments

During the planning phase, you run the processes that create inventory and financial commitments for work orders and purchase orders if these commitments have not been created previously. Engineer to Order enables you to postpone making these commitments until after the customer accepts the quote. You can turn on the Commit After Quote Accept option in the project attributes to enable you to run the Order Processing program (R31410) to obtain estimated costs without making inventory and financial commitments at that point. If you bypassed commitments before you ran the Accept Quote process, commitments are made when the system runs the Order Processing program automatically as part of the Accept Quote process.

Inventory Commitments

When you run the Order Processing program (R31410), the system attaches the parts list and routing to the work orders being processed and creates inventory commitments for the parts on the parts list, based on the commitment control setting in the Manufacturing Constants program (P3009). To enable you to reserve component items and other material for a particular project, you can set up items as project-specific material by assigning them a project-related stocking type with a special handling code of P. When items are associated with a project, you cannot issue this material to a work order that is outside of the project, unless the hard-commitment for the project is cleared.

When the system initiates order processing for the work orders on the work breakdown structure when you run the Accept Quote process, the system creates hard commitments for all component quantities based on the commitment method specified in the record in the Item Branch File Table (F4102). The program processes all work orders in the work breakdown structure in descending order and creates project-specific commitments in the Project Commitment Detail Table (F410211).

For project-specific items on purchase orders, the system creates hard commitments to a specific location and lot when you receive the purchase using the Purchase Order Receipts program (P4312). The inventory commitment is relieved when you issue the material. You can set a processing option to call the Inventory Issues program (P4112) automatically for items for which the Call Materials Issue option is turned on in the line type constants.

Note. When you reverse a receipt, the system updates most of the tables automatically, but you must update the Work Order Parts List Table (F3111) manually. When you perform the reversal, the system issues a warning because the reversal does not cancel the hard commitments that the system created for stock components on manufacturing work orders.

You can review project-specific inventory commitments by using the Project Commitment Detail Inquiry program (P410211). This program displays component quantities that are hard-committed for project work orders in the primary unit of measure, as well as the location and lot or serial number. The total quantity of inventory that is committed to projects is summarized in the Item Location File Table (F41021) in the Project Hard Committed Quantity field. You can review this information in the Summary Availability program (P41202).

Financial Commitments

If you use the Job Cost system, you can create financial commitments for project tasks. A financial commitment represents recognition of a future payment obligation. Creating financial commitments enables you to do the following:

- Review the budget and remaining amounts. By comparing the projected final cost to the actual cost-to-date, you can calculate a percentage complete. This percentage complete facilitates profit recognition because it enables you to avoid variances in the costs that you incur and in the revenue that you record for different periods.
- Calculate final project costs.

- Facilitate the execution of change orders.
- Provide information as a basis for recouping losses that are associated with committed inventory when a project is canceled.

In addition to creating encumbrances for purchasing, you can create financial commitments for stock components on manufacturing work orders. The financial commitment occurs when the material is hard-committed. You do not create commitments for labor costs that are associated with work orders.

Note. You must set up the following information to perform financial commitments for manufacturing work orders:

AAI 3120 (Work in Process) must be set up for use in projects in the Project Accounting UDC Table (31P/AI).

The manufacturing work order must be included in the Commitment Document Type UDC Table (40/CT).

When you attach the parts list and routing to the work order either interactively or by running the Order Processing program (R31410), the system creates a financial commitment for a work order by calculating the total amount that is committed for inventory. It updates the PA/PU ledger amounts in the related record in the Account Balances Table (F0902) and enters the transaction in the P.O. Detail Ledger File - Flexible Version Y Table (F43199). It also maintains the original and remaining committed amounts in the Work Order Master Tag File Table (F4801T).

Note. To avoid doubling financial commitments for subassembly items, the system removes committed amounts from the parent work order when you attach a parts list to the subassembly work order. When you attach components to a parent work order, the system determines whether subassembly work orders already exist for the components. In this case, their cost is included in the calculation of the total financial commitment.

Financial commitments for stock components on manufacturing work orders will be relieved when you perform work order completions. The system decommits financial commitments when the issue transactions for project-related work orders are posted, and it updates the committed amount in the Work Order Master Tag File Table, the Account Balances Table, and the P.O. Detail Ledger File - Flexible Version Table. Then, the system posts actual amounts with ledger type AA.

Run the Commitment Integrity Report (R40910) to determine whether the open order amounts match the committed amounts and the amounts in the Accounts Balances Table. If these amounts do not match, you can purge and then recreate an audit trail using the Commitment Rebuild program (R31P993).

When needed, you can use the Post Committed Costs to Jobs program (R00932) to repost PA ledger commitments in the Account Balances Table, including values from manufacturing-related records in the P.O. Detail Ledger File - Flexible Version Table.

When you create a purchase order for a component on a manufacturing work order, the system relieves the financial commitment for the work order. From this point forward, the financial commitment is created and maintained within the Procurement system.

When you post material transactions to the general ledger by running the Post General Journal program (R09801), the system relieves the related financial commitments. When the work order number in the subledger field in the Account Ledger Table (F0911) identifies the work order as a project work order, the system relieves the financial commitment for the work order. Relieving the financial commitment updates the following Tables:

- Work Order Master Tag File Table
- Account Balances Table
- P.O. Detail Ledger File - Flexible Version Table

If you need to roll over financial commitments that still exist at the end of a fiscal period, you can use the Encumbrance Rollover program (R4317) to relieve committed lines on purchase orders and work orders for the previous year and recommit them with the general ledger date for the current year. You must set a processing option for the program to include financial commitments for manufacturing work orders.

Rebuilding the Audit Trail for Financial Commitments

If you have purged financial commitments manually, you can use the Commitment Rebuild program (R31P993) to recreate an audit trail for a project's financial commitments that are related to manufacturing work orders or purchase orders. This program is based on the information from the Work Order Master File Table (F4801), the Work Order Parts List Table (F3111), and the Purchase Order Detail File Table (F4311).

The program processes all open purchase orders and work orders for an active project. It creates a record in the P.O. Detail Ledger File - Flexible Version Table (F43199) for the total amount committed to the parts list of each order, and it calls the Create Commitment Audit Trail program (R00993) to create a record in the P.O. Detail Ledger File - Flexible Version Table for each line on a purchase order that is related to a specific project or account number.

See Also

Commitments in the Shop Floor Management Guide for more detailed information about commitment processing.

Forms Used to Review Commitments

Form Name	Form ID	Navigation	Usage
Work With Project - Commitment Detail	W410211A	From the Inventory Inquiries menu (G41112), select Project Commitment Detail Inquiry. On Work With Project Commitment Detail, complete the Project Number field and then click Find:	Review inventory commitments.

Reviewing Inventory Commitments for Project Work Orders

Access the Work with Project - Commitment Detail form.

Description	Glossary
Project Number	A number that identifies an ETO project in the system. The project must be set up in the Add/Revise Project program (P31P011).
Branch Plant	An alphanumeric code that identifies a separate entity within a business for which you want to track costs. For example, a business unit might be a warehouse location, job, project, work center, branch, or plant.
Work Order Number	A number that identifies a document, such as a purchase order, invoice, or sales order.

Description	Glossary
Item Number	A number that the system assigns to an item. It can be in short, long, or third item number format.
Location	The area in the warehouse where you receive inventory. The format of the location is user defined and you enter the location format for each branch/plant.
Lot Serial Number	A number that identifies a lot or a serial number. A lot is a group of items with similar characteristics.
Project Hard Commit	The number of units committed to a specified location and lot for a project.

Running the Commitment Rebuild Program (R31P993)

From the Periodic Processing menu (G31P20), select Commitment Rebuild.

Setting Processing Options for the Commitment Rebuild Program (R31P993)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

These processing options control which records are included in the report.

- 1. Work Order Close Status** Use this processing option to specify the status of a closed work order . The system processes only those work orders whose status is less than the closed work order status specified. If you leave this processing option blank, the system uses a default status of 99 for closed work orders.
- 2. Include Purchase Orders / Sub-Contracts** Use this processing option to specify whether the system runs the Create F43199 Commitment Audit Trail program (R00993) to create records in the P.O. Detail Ledger File Table (F43199) for purchase orders and subcontracts related to a project. Values are:
Blank: Do not run the program.
1: Run the program.

CHAPTER 6

Using Project Execution and Control

This chapter provides an overview of project execution and control and discusses how to:

- Rolling up actual costs to the Project Workbench.
- Set up project reports and alerts.

Understanding Project Execution and Control

After you freeze the budget, you begin the execution and control phase of the project. During the execution stage, you complete your work orders on the shop floor and collect the actual material, labor, and machine costs that you incurred in producing the project end-items. Your project accounting depends on whether the project has an interface with the Job Cost system.

You can also revalue work-in-process inventory for the actual costed items in your project. You can use the Rollup of Actual Cost to Workbench program (R31P301) to roll up the actual cost reported to the corresponding cost buckets on the workbench, based on the cost classification scheme that you set up for the project. The rollup keeps the actual cost information in the Project Workbench program (P31P001) current, which enables you to track any variances between budgeted and actual costs.

You receive and pay for the items that you purchased as components or resale items. If you use the Job Cost system and you use services and contracts for your project, you can take advantage of that system's integration with the Service Billing and Contract Billing systems.

Engineer to Order also provides a number of reports, such as the Project Schedule Report (R31P400) and the Project Cost Report (R31P401) that you can use to manage project information. If you are using the Job Cost system together with Engineer to Order, you can also use Job Cost reports to track budget information and analyze profitability.

Issues and Completions for Project Work Orders

When you issue project-specific components for a work order using the Inventory Issues program (P31113), the system reviews availability to verify that this component is not already reserved for another project. If the inventory belongs to another project, you cannot issue the material, and you must specify another location with available inventory.

When you need more material for a project than you originally allocated, you can issue material from another location that has available quantity, provided that the material is not already allocated to another project. When the total demand for a particular item is satisfied, the system removes the related record from the Project Commitment Detail Table (F410211).

Should you need to transfer project-specific inventory, the system calls the Project Commitment Detail Window program (P410211W), and you must select the project number and quantity for the transfer. You can transfer quantities that are hard-committed to projects only between locations in the same business unit, but not between business units.

When you complete a subassembly for a project work order, the system updates the parts list of the parent work order with the location and lot or serial number that you specified in the Work Order Completions program (P31114). This update associates the inventory directly with the parent work order and the project to which the work order belongs.

If the subassembly work order is only partially completed, the parts list line on the parent work order splits. The original component line contains the remaining quantity, and the system inserts a new line with the completion information.

In the event of an over completion, the system updates the related parts list line with the completion location and lot or serial number. The related project commitment record, however, represents only the original component quantity.

When you close a project work order without completing it, the project-specific component quantities remain committed. You can resolve this discrepancy by performing a repost. You can run the Repost Open Work Orders program (R3190) to synchronize the quantities on open manufacturing work orders with the project-specific commitment quantities in the Item Location File Table (F41021) and the Project Commitment Detail Table (F410211).

Net Change

You can set a processing option to determine whether the system performs *anet change* (updates a manufacturing work order's parts list and routing when the order quantity, unit of measure, or dates of the work order were changed). The system calls the Net Change Processing program (R31430) to process the net change. If you set this processing option, the system processes the net change when you click OK on the Project Workbench form.

Note. The system does not process net change for service orders, equipment orders, and configured work orders. If any of the component parts for a manufacturing work order have a material status of In Warehouse, the system cannot perform the net change.

When you change a manufacturing work order's quantity, unit of measure, or dates on the Project Workbench form, the changed work order record is stored in the Net Change Transactional (F3115). If a parts list and routing is attached to the manufacturing work order, the system calls the Net Change Processing program to update the parts list and routing.

Net change processing includes the following steps:

- Recalculate the component quantities on the parts list using a quantity per value
- Process inventory commitments
- Recalculate the labor and machine hours for each routing operation using an hours per value
- Recalculate the standard and current production cost using a net change factor
- Retrieve, classify, and roll up cost estimates
- Adjust financial commitments for work orders on projects that are interfaced with the Job Cost system
- Issue a warning if activities, such as issues and time entry transactions, have been recorded for the work order

Project Accounting Considerations

To perform financial analysis and determine profitability for a specific project, you must complete the following tasks:

- Distinguish between project accounts and general accounts
- Maintain an ETO project as a stand-alone cost or profit center

- Transfer account information seamlessly from project-specific accounts to general accounts
- Integrate other systems, such as Sales Order Management, with project-specific accounts

If you do not use the Job Cost system, you can either create a business unit specifically for the project or you can use the project branch/plant as the default business unit. If you create a business unit for the project, reported costs are transparent only for the project as a whole. Actual costs are reported by task, but are not visible on a task detail level, based on the account number.

If you use the branch/plant as the default business unit, any transaction journal entries that you create are not project-specific. Even though you report costs in the Project Workbench program (P31P001) and they are, in this sense, project-specific, no project-specific account structure identifies project costs for financial analysis.

For project-specific accounting without Job Cost, you can define a project GL class code on the Job Cost of the Add/Revise Project form. The AAIs use this GL class code to determine which accounts can be used for a specific project.

If you turn on the Interface to Job Cost option for the project, you use the job business unit and the associated chart of accounts as the business unit for the project. This account structure is project-specific.

When you issue material, such as a project-specific subassembly or a purchased item, you debit a project-specific WIP and credit a project-specific inventory account. In the case of a subassembly, the system creates journal entries by cost type instead of summing up all costs into cost type A1 or A2. When completing top-level items for a project, you complete them to project-specific accounts, not general inventory accounts.

When the Sales Order Management system determines whether inventory for an item is available to be sold, it searches general inventory accounts first. To enable the Sales Order Management system to access inventory that is produced in a project, you can create duplicate journal entries that credit a contra account (AAI 3140) and debit the general inventory account, in addition to project inventory and project WIP accounts.

Note. The contra account AAI (3140) must be activated for project accounting in the Project Accounting UDC Table (31P/AI).

Prerequisite

Ensure that the processing options for the Enter/Change Order (P48013) and Enter/Change Rate Schedule (P3109) programs are set to recalculate and update parts list and routing information for the changed work order.

See Also

The following topics in the Shop Floor Management Guide:

Issues, Material Movement, and Kanbans for more detailed information about issuing inventory

Completions for more detailed information about completing work orders and rate schedules

Hours and Quantities for information about capturing actual labor and machine cost information

Creating Journal Entries in the Product Costing and Manufacturing Accounting Guide for more detailed information about creating journal entries and variance accounting

Revaluing Work in Process in the PCMA guide for information about WIP Reval.

Rolling Up Actual Costs to the Project Workbench

From the Cost Classification menu (G31P31), select Rollup of Actual Costs to Workbench.

Project managers can roll up costs to the project workbench to review, at any point in time, the actual costs reported for any individual task in the project. For example, when material issues, labor or completions are reported for a production task, the rollup collects the actual costs of these activities. A roll-up of actual costs also enables project managers to compare the estimated costs to the actual costs reported, and then analyze the cost variances, if any occur.

Use the Rollup of Actual Costs to Workbench program (R31P301) to roll up the actual cost information, which you collect for work orders in the course of the production process, to the following cost fields in the Project Workbench program (P31P001):

- Actual material
- Actual labor
- Actual other
- Actual special units
- Actual special amounts

Because a project consists of two different types of tasks, production tasks and nonproduction tasks, the system must retrieve costs from two different sources. Costs that are associated with production tasks are tracked through manufacturing accounting. These costs are stored in the Production Cost Table (F3102). Manufacturing accounting, however, is not run for nonproduction tasks. The costs related to those tasks are stored in the Account Ledger Table (F0911).

Note. Nonproduction tasks are posted to the Account Ledger with a batch type that is not a manufacturing batch type. However, to track those costs, you need to complete the Subledger field with the task or work order number for which the costs are incurred.

Based on the cost classification for cost types and the accounts that are set up in the Cost Classification program (P31P301), the system evaluates all of the tasks in the project, retrieves their costs from either the Production Cost or the Account Ledger Table, depending on the type of task, and updates them in the actual cost fields. The information in the cost fields is stored in the Work Order Master Tag File Table (F4801T).

Prerequisite

Set up the cost classification table that maps cost types and accounts to the cost buckets in the Project Workbench program (P31P001).

Project Reports and Alerts

This section provides an overview of project reports and alerts and discusses how to:

- Set processing options for Project Schedule Report (R31P400).
- Set processing options for Project Cost Report (R31P401).
- Set processing options for Project Inventory Report (R31P402).

Understanding Project Reports and Alerts

Engineer to Order provides a number of batch programs that enable you to manage project information during the execution and control phase of the project. They provide status and exception information. For tasks that are identified as alert-sensitive on the project workbench, the system sends alerts to the individuals who are assigned to those tasks. Each task can identify three responsible people, including the manager, the supervisor, and the person who is assigned to the task. You can set up each report to send an alert to any combination of the responsible people for each task.

The Engineer-to-Order system provides the following reports:

- Project Schedule Report (R31P400)
- Project Cost Report (R31P401)
- Project Inventory Report (R31P402)

Setting Processing Options for Project Schedule Report (R31P400)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

These processing options control to whom the system sends an alert and the circumstances under which the system sends an alert when you run this report.

- | | |
|---|--|
| 1. Send alert to Manager assigned to task. | <p>Use this processing option to specify whether the system sends a project alert to the manager who is associated with a task. Values are:</p> <p><i>Blank:</i> Do not send an alert.</p> <p><i>I:</i> Send an alert.</p> |
| 2. Send alert to Supervisor assigned to task. | <p>Use this processing option to specify whether the system sends a project alert to the supervisor who is associated with a task. Values are:</p> <p><i>Blank:</i> Do not send an alert.</p> <p><i>I:</i> Send an alert.</p> |
| 3. Send alert to 'Assigned To' assigned to task. | <p>Use this processing option to specify whether the system sends a project alert to the address book number that is specified in the Assigned To field for a task. Values are:</p> <p><i>Blank:</i> Do not send an alert.</p> <p><i>I:</i> Send an alert.</p> |
| 4. Email Distribution List | <p>Use this processing option to specify the distribution list for the project alert.</p> |

5. Threshold (in days) for late receipt or completion of orders from the planned end or promised date.

Use this processing option to specify the number of days after the planned end date or promised date that orders can still be received or completed. If the threshold for late receipt or completion is exceeded, the system sends a schedule exception message for work orders to the responsible parties for work orders, and a schedule exception message for purchase orders to the appropriate personnel.

6. Threshold (in percentage) of shortage from the order quantity of a Work Order or Purchase Order.

Use this processing option to specify the enableable percentage of shortage for a work order or purchase order. If the threshold is exceeded, the system sends a work order quantity exception message to the responsible parties for a work order task, and a purchase order quantity exception message for a purchase order task.

Defaults

These processing options specify the status at which a work order or a purchase order line is considered closed.

1. Closed Work Order Status

Use this processing option to specify the status that is used to close a Work Order. If you leave this processing option blank, the system uses status code 99.

2. Closed Purchase Order Line Status

Use this processing option to specify the next status of the order after the system closes or fully receives the detail line. If you leave this processing option blank, the system assigns a status code of 999 to closed or fully received detail lines.

Setting Processing Options for Project Cost Report (R31P401)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

These processing options control when and under what circumstances the system sends an alert when you print this report. You can also specify whether the system includes the WIP amount when it calculates budget exceptions.

1. Print Budgeted costs from:

Use this processing option to specify the source for the budgeted cost on the report. If you leave this processing option blank, the system uses the estimated cost as a source. Values:

1: Estimated cost

2: Planned cost

2. Send alert to Manager assigned to task.

Use this processing option to specify whether the system sends a project alert to the manager associated with a task. Values are:

Blank: Do not send an alert.

- I*: Send an alert.
- 3. Send alert to Supervisor assigned to task.** Use this processing option to specify whether the system sends a project alert to the supervisor associated with a task. Values are:
Blank: Do not send an alert.
I: Send an alert.
- 4. Send alert to 'Assigned To' assigned to task.** Use this processing option to specify whether the system sends a project alert to the address book number specified in the Assigned To field for a task. Values are:
Blank: Do not send an alert.
I: Send an alert.
- 5. Email Distribution List** Use this processing option to specify a distribution list for sending the project alert.
- 6. Threshold (in percentage) of Budget vs. Actual Cost variance.** Use this processing option to specify the enabled variance percentage between budgeted and actual costs. If the threshold is exceeded, the system sends a budget exception message to the responsible parties.
- 7. Threshold (in percentage) of Over-Receipts from the cost of the Purchase Order.** Use this processing option to specify the enabled percentage of over-receipts relative to the cost of the purchase order. If the percentage threshold is exceeded, the system sends an overpayment exception message to the responsible parties.
- 8. Include WIP value as part of the calculation of Actual costs for calculating the Budget Exception.** Use this processing option to specify whether the WIP amount should be included in the actual cost when the system calculates the budget exception. Values are:
Blank: Do not include the WIP amount.
I: Include the WIP amount.

Setting Processing Options for Project Inventory Report (R31P402)

Processing options enable you to specify the default processing for programs and reports.

For programs, you can specify options such as the default values for specific transactions, whether fields appear on a form, and the version of the program that you want to run.

For reports, processing options enable you to specify the information that appears on reports. For example, you set a processing option to include the fiscal year or the number of aging days on a report.

Do not modify EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Process

These processing options control when and under what circumstances the system sends an alert when you print this report.

- 1. Send alert to Manager assigned to task.** Use this processing option to specify whether the system sends a project alert to the manager associated with a task. Values are:

- Blank:* Do not send an alert.
1: Send an alert.
- 2. Send alert to Supervisor assigned to task.** Use this processing option to specify whether the system sends a project alert to the supervisor associated with a task. Values are:
Blank: Do not send an alert.
1: Send an alert.
- 3. Send alert to 'Assigned To' assigned to task.** Use this processing option to specify whether the system sends a project alert to the address book number specified in the Assigned To field for a task. Values are:
Blank: Do not send an alert.
1: Send an alert.
- 4. Email Distribution List** Use this processing option to specify a distribution list for sending the project alert.
- 5. Threshold (absolute value) for negative availability.** Use this processing option to specify the threshold for negative availability. If the threshold is exceeded, the system sends a message to the responsible parties, alerting them to the condition.

CHAPTER 7

Closing a Project

This chapter provides an overview of the project close process and discusses how to run the Project Close Analyzer program.

Understanding the Project Close Process

As the project approaches its scheduled completion date, you need to review the project information to identify activities that still need to be performed for the project. Ensure that all manufacturing and purchasing activities have been either completed or canceled, and that all products that need to be delivered to the customer have been shipped.

If your project has an interface with the Job Cost system, you can use Job Cost reports and batch programs to create financial reports for analysis and profit recognition.

To close a project formally, you use the Close Project option on the Form menu of the Project Workbench form. Choosing the Close Project option automatically starts the Project Close Analyzer program (R31P403), which determines whether the system has all of the information that it needs to close the project. After you close the project, the project status changes to closed. You can verify this information on the Project Status of the Add/Revise Project program (P31P011).

Running the Project Close Analyzer Program

Use the Project Close Analyzer program (R31P403) to analyze the WBS to determine whether a project can be closed. The system also calls this program when you attempt to close the project from the Project Workbench form of the Project Workbench program (P31P001). You can run this batch program for only one project at a time. When the program finishes running, it returns a value that indicates whether the project can be closed.

The program reviews every task to determine whether any of the following issues exist:

- Manufacturing work orders that have not been canceled or closed
- Parts lists that have open inventory commitments
- Purchase orders that are still open

If any of these issues exist for any task in the project, you must resolve the issues before you can close the project.

See Also

Job Cost Reports and Profit Recognition in the Job Cost Guide for more details about financial reports and profit analysis.

Glossary of PeopleSoft Terms

activity	A scheduling entity in PeopleSoft EnterpriseOne Form Design Aid that represents a designated amount of time on a calendar.
activity rule	The criteria by which an object progresses from one given point to the next in a flow.
add mode	A condition of a form that enables users to input data.
Advanced Planning Agent (APAg)	A PeopleSoft EnterpriseOne tool that can be used to extract, transform, and load enterprise data. APAg supports access to data sources in the form of relational databases, flat file format, and other data or message encoding, such as XML.
application server	A server in a local area network that contains applications shared by network clients.
as if processing	A process that enables you to view currency amounts as if they were entered in a currency different from the domestic and foreign currency of the transaction.
alternate currency	A currency that is different from the domestic currency (when dealing with a domestic-only transaction) or the domestic and foreign currency of a transaction. In PeopleSoft EnterpriseOne Financial Management, alternate currency processing enables you to enter receipts and payments in a currency other than the one in which they were issued.
as of processing	A process that is run as of a specific point in time to summarize transactions up to that date. For example, you can run various PeopleSoft EnterpriseOne reports as of a specific date to determine balances and amounts of accounts, units, and so on as of that date.
back-to-back process	A process in PeopleSoft EnterpriseOne Workflow Management that contains the same keys that are used in another process.
batch processing	A process of transferring records from a third-party system to PeopleSoft EnterpriseOne. In PeopleSoft EnterpriseOne Financial Management, batch processing enables you to transfer invoices and vouchers that are entered in a system other than EnterpriseOne to PeopleSoft EnterpriseOne Accounts Receivable and PeopleSoft EnterpriseOne Accounts Payable, respectively. In addition, you can transfer address book information, including customer and supplier records, to PeopleSoft EnterpriseOne.
batch server	A server that is designated for running batch processing requests. A batch server typically does not contain a database nor does it run interactive applications.
batch-of-one immediate	A transaction method that enables a client application to perform work on a client workstation, then submit the work all at once to a server application for further processing. As a batch process is running on the server, the client application can continue performing other tasks. See also direct connect and store-and-forward.
business function	A named set of user-created, reusable business rules and logs that can be called through event rules. Business functions can run a transaction or a subset of a transaction (check inventory, issue work orders, and so on). Business functions also contain the application programming interfaces (APIs) that enable them to be called from a form, a database trigger, or a non-EnterpriseOne application. Business functions can be combined with other business functions, forms, event rules, and other components to make up an application. Business functions can be created through

	event rules or third-generation languages, such as C. Examples of business functions include Credit Check and Item Availability.
business function event rule	See named event rule (NER).
business view	A means for selecting specific columns from one or more PeopleSoft EnterpriseOne tables whose data is used in an application or report. A business view does not select specific rows, nor does it contain any actual data. It is strictly a view through which you can manipulate data.
central objects merge	A process that blends a customer's modifications to the objects in a current release with objects in a new release.
central server	A server that has been designated to contain the originally installed version of the software (central objects) for deployment to client computers. In a typical PeopleSoft EnterpriseOne installation, the software is loaded on to one machine—the central server. Then, copies of the software are pushed out or downloaded to various workstations attached to it. That way, if the software is altered or corrupted through its use on workstations, an original set of objects (central objects) is always available on the central server.
charts	Tables of information in PeopleSoft EnterpriseOne that appear on forms in the software.
connector	Component-based interoperability model that enables third-party applications and PeopleSoft EnterpriseOne to share logic and data. The PeopleSoft EnterpriseOne connector architecture includes Java and COM connectors.
contra/clearing account	A general ledger account in PeopleSoft EnterpriseOne Financial Management that is used by the system to offset (balance) journal entries. For example, you can use a contra/clearing account to balance the entries created by allocations in PeopleSoft EnterpriseOne General Accounting.
Control Table Workbench	An application that, during the installation Workbench processing, runs the batch applications for the planned merges that update the data dictionary, user-defined codes, menus, and user override tables.
control tables merge	A process that blends a customer's modifications to the control tables with the data that accompanies a new release.
cost assignment	The process in PeopleSoft EnterpriseOne Advanced Cost Accounting of tracing or allocating resources to activities or cost objects.
cost component	In PeopleSoft EnterpriseOne Manufacturing Management, an element of an item's cost (for example, material, labor, or overhead).
cross segment edit	A logic statement that establishes the relationship between configured item segments. Cross segment edits are used to prevent ordering of configurations that cannot be produced.
currency restatement	The process of converting amounts from one currency into another currency, generally for reporting purposes. You can use the currency restatement process, for example, when many currencies must be restated into a single currency for consolidated reporting.
database server	A server in a local area network that maintains a database and performs searches for client computers.
Data Source Workbench	An application that, during the Installation Workbench process, copies all data sources that are defined in the installation plan from the Data Source Master and Table and Data Source Sizing tables in the Planner data source to the System-release number data source. It also updates the Data Source Plan detail record to reflect completion.

date pattern	A calendar that represents the beginning date for the fiscal year and the ending date for each period in that year in standard and 52-period accounting.
denominated-in currency	The company currency in which financial reports are based.
deployment server	A server that is used to install, maintain, and distribute software to one or more enterprise servers and client workstations.
detail information	Information that relates to individual lines in PeopleSoft EnterpriseOne transactions (for example, voucher pay items and sales order detail lines).
direct connect	A transaction method in which a client application communicates interactively and directly with a server application. See also batch-of-one immediate and store-and-forward.
Do Not Translate (DNT)	A type of data source that must exist on the iSeries because of BLOB restrictions.
dual pricing	The process of providing prices for goods and services in two currencies.
edit code	A code that indicates how a specific value for a report or a form should appear or be formatted. The default edit codes that pertain to reporting require particular attention because they account for a substantial amount of information.
edit mode	A condition of a form that enables users to change data.
edit rule	A method used for formatting and validating user entries against a predefined rule or set of rules.
Electronic Data Interchange (EDI)	An interoperability model that enables paperless computer-to-computer exchange of business transactions between PeopleSoft EnterpriseOne and third-party systems. Companies that use EDI must have translator software to convert data from the EDI standard format to the formats of their computer systems.
embedded event rule	An event rule that is specific to a particular table or application. Examples include form-to-form calls, hiding a field based on a processing option value, and calling a business function. Contrast with the business function event rule.
Employee Work Center	A central location for sending and receiving all PeopleSoft EnterpriseOne messages (system and user generated), regardless of the originating application or user. Each user has a mailbox that contains workflow and other messages, including Active Messages.
enterprise server	A server that contains the database and the logic for PeopleSoft EnterpriseOne or PeopleSoft World.
EnterpriseOne object	A reusable piece of code that is used to build applications. Object types include tables, forms, business functions, data dictionary items, batch processes, business views, event rules, versions, data structures, and media objects.
EnterpriseOne process	A software process that enables PeopleSoft EnterpriseOne clients and servers to handle processing requests and run transactions. A client runs one process, and servers can have multiple instances of a process. PeopleSoft EnterpriseOne processes can also be dedicated to specific tasks (for example, workflow messages and data replication) to ensure that critical processes don't have to wait if the server is particularly busy.
Environment Workbench	An application that, during the Installation Workbench process, copies the environment information and Object Configuration Manager tables for each environment from the Planner data source to the System-release number data source. It also updates the Environment Plan detail record to reflect completion.
escalation monitor	A batch process that monitors pending requests or activities and restarts or forwards them to the next step or user after they have been inactive for a specified amount of time.

event rule	A logic statement that instructs the system to perform one or more operations based on an activity that can occur in a specific application, such as entering a form or exiting a field.
facility	An entity within a business for which you want to track costs. For example, a facility might be a warehouse location, job, project, work center, or branch/plant. A facility is sometimes referred to as a <i>business unit</i> .
fast path	A command prompt that enables the user to move quickly among menus and applications by using specific commands.
file server	A server that stores files to be accessed by other computers on the network. Unlike a disk server, which appears to the user as a remote disk drive, a file server is a sophisticated device that not only stores files, but also manages them and maintains order as network user request files and make changes to these files.
final mode	The report processing mode of a processing mode of a program that updates or creates data records.
FTP server	A server that responds to requests for files via file transfer protocol.
header information	Information at the beginning of a table or form. Header information is used to identify or provide control information for the group of records that follows.
interface table	See Z tables.
integration server	A server that facilitates interaction between diverse operating systems and applications across internal and external networked computer systems.
integrity test	A process used to supplement a company's internal balancing procedures by locating and reporting balancing problems and data inconsistencies.
interoperability model	A method for third-party systems to connect to or access PeopleSoft EnterpriseOne.
in-your-face-error	In PeopleSoft EnterpriseOne, a form-level property which, when enabled, causes the text of application errors to appear on the form.
IServer service	Developed by PeopleSoft, this internet server service resides on the web server and is used to speed up delivery of the Java class files from the database to the client.
jargon	An alternative data dictionary item description that PeopleSoft EnterpriseOne or People World displays based on the product code of the current object.
Java application server	A component-based server that resides in the middle-tier of a server-centric architecture. This server provides middleware services for security and state maintenance, along with data access and persistence.
JDBNET	A database driver that enables heterogeneous servers to access each other's data.
JDEBASE Database Middleware	A PeopleSoft proprietary database middleware package that provides platform-independent APIs, along with client-to-server access.
JDECallObject	An API used by business functions to invoke other business functions.
jde.ini	A PeopleSoft file (or member for iSeries) that provides the runtime settings required for EnterpriseOne initialization. Specific versions of the file or member must reside on every machine running PeopleSoft EnterpriseOne. This includes workstations and servers.
JDEIPC	Communications programming tools used by server code to regulate access to the same data in multiprocess environments, communicate and coordinate between processes, and create new processes.

jde.log	The main diagnostic log file of PeopleSoft EnterpriseOne. This file is always located in the root directory on the primary drive and contains status and error messages from the startup and operation of PeopleSoft EnterpriseOne.
JDENET	PeopleSoft proprietary communications middleware package. This package is a peer-to-peer, message-based, socket-based, multiprocess communications middleware solution. It handles client-to-server and server-to-server communications for all PeopleSoft EnterpriseOne supported platforms.
Location Workbench	An application that, during the Installation Workbench process, copies all locations that are defined in the installation plan from the Location Master table in the Planner data source to the System data source.
logic server	A server in a distributed network that provides the business logic for an application program. In a typical configuration, pristine objects are replicated on to the logic server from the central server. The logic server, in conjunction with workstations, actually performs the processing required when PeopleSoft EnterpriseOne and World software runs.
MailMerge Workbench	An application that merges Microsoft Word 6.0 (or higher) word-processing documents with PeopleSoft EnterpriseOne records to automatically print business documents. You can use MailMerge Workbench to print documents, such as form letters about verification of employment.
master business function (MBF)	An interactive master file that serves as a central location for adding, changing, and updating information in a database. Master business functions pass information between data entry forms and the appropriate tables. These master functions provide a common set of functions that contain all of the necessary default and editing rules for related programs. MBFs contain logic that ensures the integrity of adding, updating, and deleting information from databases.
master table	See published table.
matching document	A document associated with an original document to complete or change a transaction. For example, in PeopleSoft EnterpriseOne Financial Management, a receipt is the matching document of an invoice, and a payment is the matching document of a voucher.
media storage object	Files that use one of the following naming conventions that are not organized into table format: Gxxx, xxxGT, or GTxxx.
message center	A central location for sending and receiving all PeopleSoft EnterpriseOne messages (system and user generated), regardless of the originating application or user.
messaging adapter	An interoperability model that enables third-party systems to connect to PeopleSoft EnterpriseOne to exchange information through the use of messaging queues.
messaging server	A server that handles messages that are sent for use by other programs using a messaging API. Messaging servers typically employ a middleware program to perform their functions.
named event rule (NER)	Encapsulated, reusable business logic created using event rules, rather than C programming. NERs are also called business function event rules. NERs can be reused in multiple places by multiple programs. This modularity lends itself to streamlining, reusability of code, and less work.
<i>nota fiscal</i>	In Brazil, a legal document that must accompany all commercial transactions for tax purposes and that must contain information required by tax regulations.
<i>nota fiscal factura</i>	In Brazil, a <i>nota fiscal</i> with invoice information. See also <i>nota fiscal</i> .

Object Configuration Manager (OCM)	In PeopleSoft EnterpriseOne, the object request broker and control center for the runtime environment. OCM keeps track of the runtime locations for business functions, data, and batch applications. When one of these objects is called, OCM directs access to it using defaults and overrides for a given environment and user.
Object Librarian	A repository of all versions, applications, and business functions reusable in building applications. Object Librarian provides check-out and check-in capabilities for developers, and it controls the creation, modification, and use of PeopleSoft EnterpriseOne objects. Object Librarian supports multiple environments (such as production and development) and enables objects to be easily moved from one environment to another.
Object Librarian merge	A process that blends any modifications to the Object Librarian in a previous release into the Object Librarian in a new release.
Open Data Access (ODA)	An interoperability model that enables you to use SQL statements to extract PeopleSoft EnterpriseOne data for summarization and report generation.
Output Stream Access (OSA)	An interoperability model that enables you to set up an interface for PeopleSoft EnterpriseOne to pass data to another software package, such as Microsoft Excel, for processing.
package	EnterpriseOne objects are installed to workstations in packages from the deployment server. A package can be compared to a bill of material or kit that indicates the necessary objects for that workstation and where on the deployment server the installation program can find them. It is point-in-time snap shot of the central objects on the deployment server.
package build	A software application that facilitates the deployment of software changes and new applications to existing users. Additionally, in PeopleSoft EnterpriseOne, a package build can be a compiled version of the software. When you upgrade your version of the ERP software, for example, you are said to take a package build. Consider the following context: “Also, do not transfer business functions into the production path code until you are ready to deploy, because a global build of business functions done during a package build will automatically include the new functions.” The process of creating a package build is often referred to, as it is in this example, simply as “a package build.”
package location	The directory structure location for the package and its set of replicated objects. This is usually \\deployment server\release\path_code\package\package name. The subdirectories under this path are where the replicated objects for the package are placed. This is also referred to as where the package is built or stored.
Package Workbench	An application that, during the Installation Workbench process, transfers the package information tables from the Planner data source to the System-release number data source. It also updates the Package Plan detail record to reflect completion.
PeopleSoft Database	See JDEBASE Database Middleware.
planning family	A means of grouping end items whose similarity of design and manufacture facilitates being planned in aggregate.
preference profile	The ability to define default values for specified fields for a user-defined hierarchy of items, item groups, customers, and customer groups.
print server	The interface between a printer and a network that enables network clients to connect to the printer and send their print jobs to it. A print server can be a computer, separate hardware device, or even hardware that resides inside of the printer itself.
pristine environment	A PeopleSoft EnterpriseOne environment used to test unaltered objects with PeopleSoft demonstration data or for training classes. You must have this environment so that you can compare pristine objects that you modify.

processing option	A data structure that enables users to supply parameters that regulate the running of a batch program or report. For example, you can use processing options to specify default values for certain fields, to determine how information appears or is printed, to specify date ranges, to supply runtime values that regulate program execution, and so on.
production environment	A PeopleSoft EnterpriseOne environment in which users operate EnterpriseOne software.
production-grade file server	A file server that has been quality assurance tested and commercialized and that is usually provided in conjunction with user support services.
program temporary fix (PTF)	A representation of changes to PeopleSoft software that your organization receives on magnetic tapes or disks.
project	In PeopleSoft EnterpriseOne, a virtual container for objects being developed in Object Management Workbench.
promotion path	The designated path for advancing objects or projects in a workflow. The following is the normal promotion cycle (path): 11>21>26>28>38>01 In this path, 11 equals new project pending review, 21 equals programming, 26 equals QA test/review, 28 equals QA test/review complete, 38 equals in production, 01 equals complete. During the normal project promotion cycle, developers check objects out of and into the development path code and then promote them to the prototype path code. The objects are then moved to the productions path code before declaring them complete.
proxy server	A server that acts as a barrier between a workstation and the internet so that the enterprise can ensure security, administrative control, and caching service.
published table	Also called a master table, this is the central copy to be replicated to other machines. Residing on the publisher machine, the F98DRPUB table identifies all of the published tables and their associated publishers in the enterprise.
publisher	The server that is responsible for the published table. The F98DRPUB table identifies all of the published tables and their associated publishers in the enterprise.
pull replication	One of the PeopleSoft methods for replicating data to individual workstations. Such machines are set up as pull subscribers using PeopleSoft EnterpriseOne data replication tools. The only time that pull subscribers are notified of changes, updates, and deletions is when they request such information. The request is in the form of a message that is sent, usually at startup, from the pull subscriber to the server machine that stores the F98DRPCN table.
QBE	An abbreviation for query by example. In PeopleSoft EnterpriseOne, the QBE line is the top line on a detail area that is used for filtering data.
real-time event	A service that uses system calls to capture PeopleSoft EnterpriseOne transactions as they occur and to provide notification to third-party software, end users, and other PeopleSoft systems that have requested notification when certain transactions occur.
refresh	A function used to modify PeopleSoft EnterpriseOne software, or subset of it, such as a table or business data, so that it functions at a new release or cumulative update level, such as B73.2 or B73.2.1.
replication server	A server that is responsible for replicating central objects to client machines.
quote order	In PeopleSoft EnterpriseOne Procurement and Subcontract Management, a request from a supplier for item and price information from which you can create a purchase order.

	In PeopleSoft EnterpriseOne Sales Order Management, item and price information for a customer who has not yet committed to a sales order.
selection	Found on PeopleSoft menus, a selection represents functions that you can access from a menu. To make a selection, type the associated number in the Selection field and press Enter.
Server Workbench	An application that, during the Installation Workbench process, copies the server configuration files from the Planner data source to the System-release number data source. It also updates the Server Plan detail record to reflect completion.
spot rate	An exchange rate entered at the transaction level. This rate overrides the exchange rate that is set up between two currencies.
Specification merge	A merge that comprises three merges: Object Librarian merge, Versions List merge, and Central Objects merge. The merges blend customer modifications with data that accompanies a new release.
specification	A complete description of a PeopleSoft EnterpriseOne object. Each object has its own specification, or name, which is used to build applications.
Specification Table Merge Workbench	An application that, during the Installation Workbench process, runs the batch applications that update the specification tables.
store-and-forward	The mode of processing that enables users who are disconnected from a server to enter transactions and then later connect to the server to upload those transactions.
subscriber table	Table F98DRSUB, which is stored on the publisher server with the F98DRPUB table and identifies all of the subscriber machines for each published table.
supplemental data	Any type of information that is not maintained in a master file. Supplemental data is usually additional information about employees, applicants, requisitions, and jobs (such as an employee's job skills, degrees, or foreign languages spoken). You can track virtually any type of information that your organization needs. For example, in addition to the data in the standard master tables (the Address Book Master, Customer Master, and Supplier Master tables), you can maintain other kinds of data in separate, generic databases. These generic databases enable a standard approach to entering and maintaining supplemental data across PeopleSoft EnterpriseOne systems.
table access management (TAM)	The PeopleSoft EnterpriseOne component that handles the storage and retrieval of use-defined data. TAM stores information, such as data dictionary definitions; application and report specifications; event rules; table definitions; business function input parameters and library information; and data structure definitions for running applications, reports, and business functions.
Table Conversion Workbench	An interoperability model that enables the exchange of information between PeopleSoft EnterpriseOne and third-party systems using non-PeopleSoft EnterpriseOne tables.
table conversion	An interoperability model that enables the exchange of information between PeopleSoft EnterpriseOne and third-party systems using non-PeopleSoft EnterpriseOne tables.
table event rules	Logic that is attached to database triggers that runs whenever the action specified by the trigger occurs against the table. Although PeopleSoft EnterpriseOne enables event rules to be attached to application events, this functionality is application specific. Table event rules provide embedded logic at the table level.
terminal server	A server that enables terminals, microcomputers, and other devices to connect to a network or host computer or to devices attached to that particular computer.

three-tier processing	The task of entering, reviewing and approving, and posting batches of transactions in PeopleSoft EnterpriseOne.
three-way voucher match	In PeopleSoft EnterpriseOne Procurement and Subcontract Management, the process of comparing receipt information to supplier's invoices to create vouchers. In a three-way match, you use the receipt records to create vouchers.
transaction processing (TP) monitor	A monitor that controls data transfer between local and remote terminals and the applications that originated them. TP monitors also protect data integrity in the distributed environment and may include programs that validate data and format terminal screens.
transaction set	An electronic business transaction (electronic data interchange standard document) made up of segments.
trigger	One of several events specific to data dictionary items. You can attach logic to a data dictionary item that the system processes automatically when the event occurs.
triggering event	A specific workflow event that requires special action or has defined consequences or resulting actions.
two-way voucher match	In PeopleSoft EnterpriseOne Procurement and Subcontract Management, the process of comparing purchase order detail lines to the suppliers' invoices to create vouchers. You do not record receipt information.
User Overrides merge	Adds new user override records into a customer's user override table.
variance	In Capital Asset Management, the difference between revenue generated by a piece of equipment and costs incurred by the equipment. In EnterpriseOne Project Costing and EnterpriseOne Manufacturing Management, the difference between two methods of costing the same item (for example, the difference between the frozen standard cost and the current cost is an engineering variance). Frozen standard costs come from the Cost Components table, and the current costs are calculated using the current bill of material, routing, and overhead rates.
Version List merge	The Versions List merge preserves any non-XJDE and non-ZJDE version specifications for objects that are valid in the new release, as well as their processing options data.
visual assist	Forms that can be invoked from a control via a trigger to assist the user in determining what data belongs in the control.
vocabulary override	An alternate description for a data dictionary item that appears on a specific PeopleSoft EnterpriseOne or World form or report.
wchar_t	An internal type of a wide character. It is used for writing portable programs for international markets.
web application server	A web server that enables web applications to exchange data with the back-end systems and databases used in eBusiness transactions.
web server	A server that sends information as requested by a browser, using the TCP/IP set of protocols. A web server can do more than just coordination of requests from browsers; it can do anything a normal server can do, such as house applications or data. Any computer can be turned into a web server by installing server software and connecting the machine to the internet.
Windows terminal server	A multiuser server that enables terminals and minimally configured computers to display Windows applications even if they are not capable of running Windows software themselves. All client processing is performed centrally at the Windows terminal server and only display, keystroke, and mouse commands are transmitted over the network to the client terminal device.

work day calendar	In EnterpriseOne Manufacturing Management, a calendar that is used in planning functions that consecutively lists only working days so that component and work order scheduling can be done based on the actual number of work days available. A work day calendar is sometimes referred to as planning calendar, manufacturing calendar, or shop floor calendar.
workflow	The automation of a business process, in whole or in part, during which documents, information, or tasks are passed from one participant to another for action, according to a set of procedural rules.
workgroup server	A server that usually contains subsets of data replicated from a master network server. A workgroup server does not perform application or batch processing.
XAPI events	A service that uses system calls to capture PeopleSoft EnterpriseOne transactions as they occur and then calls third-party software, end users, and other PeopleSoft systems that have requested notification when the specified transactions occur to return a response.
XML CallObject	An interoperability capability that enables you to call business functions.
XML Dispatch	An interoperability capability that provides a single point of entry for all XML documents coming into PeopleSoft EnterpriseOne for responses.
XML List	An interoperability capability that enables you to request and receive PeopleSoft EnterpriseOne database information in chunks.
XML Service	An interoperability capability that enables you to request events from one PeopleSoft EnterpriseOne system and receive a response from another PeopleSoft EnterpriseOne system.
XML Transaction	An interoperability capability that enables you to use a predefined transaction type to send information to or request information from PeopleSoft EnterpriseOne. XML transaction uses interface table functionality.
XML Transaction Service (XTS)	Transforms an XML document that is not in the PeopleSoft EnterpriseOne format into an XML document that can be processed by PeopleSoft EnterpriseOne. XTS then transforms the response back to the request originator XML format.
Z event	A service that uses interface table functionality to capture PeopleSoft EnterpriseOne transactions and provide notification to third-party software, end users, and other PeopleSoft systems that have requested to be notified when certain transactions occur.
Z table	A working table where non-PeopleSoft EnterpriseOne information can be stored and then processed into PeopleSoft EnterpriseOne. Interface tables also can be used to retrieve PeopleSoft EnterpriseOne data. Interface tables are also known as interface tables.
Z transaction	Third-party data that is properly formatted in interface tables for updating to the PeopleSoft EnterpriseOne database.

Index

A

- Access the Work With Detail Messages form. 64
- Actual costs
 - rolling up to the project workbench 84
- additional documentation x
- application fundamentals ix
- Assigning estimated costs 46
- Assigning planned costs 46
- Assigning resources to tasks 45
- Attaching existing work orders to a project 71
- Attaching existing work orders to projects 75

C

- Capital asset management
 - integration 11
- Capital Asset Management 2
- Chart of Accounts 22
- Closing a project 89
- comments, submitting xiv
- Commitment Document Types 20
- Commitment Rebuild (R31P993)
 - processing options 79
- common elements xiv
- contact information xiv
- Contract billing
 - integration 12
- Contract Billing 3
- Cost Classification 20
- Cost Classification (P31P301)
 - processing options 18
- Cost classification for ETO projects
 - setting up 17
- Creating a quote for a project 53
- Creating financial commitments 76
- Creating inventory commitments 76
- Creating orders for a project 67
- Creating project header information 28
- Creating Projects 35
- Creating related orders for a project 73, 74
- cross-references xiii
- Customer Connection website x

D

- Defining project-specific material 16
- Defining task dependencies 44
- Distribution Requirements Planning 20
- documentation
 - printed x
 - related x
 - updates x
- DRP Unadjusted 20

E

- Electronic Mail Boxes 20
- Engineer to Order
 - attaching existing work orders to a project 71
 - creating financial commitments 76
 - generating orders for a project 67
 - project accounting 82
 - project alerts 84
 - project close 89
 - project execution and control 81
 - project life cycle 8
 - project planning 57
 - project reports 84
 - purchasing project material 68
 - setup 15
 - system features 9
 - system integration 10
 - systemless 12
 - tables 12
 - task types 15
 - user-defined codes 20
- Engineer to order overview 7
- Enter Purchase Orders (P4310)
 - Work With Order Headers 72
- Entering purchase orders for project material 72, 73
- Estimated costs
 - assigning 46
- Export to MS-Project (R31P404) and Import from MS-Project (R31P801)
 - processing options 24

F

- Financial commitments

- creating 76
- inventory interface 16
- line type 16
- line type constants 16
- rebuilding the audit trail 78

Forms

- Create Orders for a Project 72
- Create Projects 30
- Generate Project Requirements Plans 64
- Generate Quotes and Proposals 51
- Job Cost Integration 22
- Review Commitments 78
- Schedule Project Tasks and Assign Estimated and Planned Costs 47
- Set Up Cost and Account Classifications 18
- With with Projects 73
- Work With Order Headers 72
- Work With Project Quote 53, 54
- Work with Project Tasks 42
- Work with Projects 74

G

- Generating a multiplant requirements plan for projects 64
- Generating a sales quote 54
- Generating quotes and proposals 48
- Generation
 - project requirements planning 61

I

- integration
 - requirements planning 11
- Integration
 - capital asset management 11
 - contract billing 12
 - engineer to order 10
 - inventory management 10
 - job cost 11
 - procurement 12
 - product data management 10
 - quality management 11
 - sales order management 12
 - service billing 12
 - shop floor management 11
- Integration with Microsoft Project 23
- Inventory commitments

- creating 76
- Inventory Interface 21
- Inventory management
 - integration 10
- Inventory Management 1
- Issues and completions for project work orders 81

J

- Job cost
 - integration 11
 - setting up integration 21
- Job Cost 2
- Job cost budget
 - loading from the project budget 58
- Job cost integration
 - setting up 21

L

- Loading project budgets to the job cost budget 58

M

- Maintenance Material Planning 21
- Master Production Schedule 21
- Material Requirements Planning 21
- Microsoft Project
 - integration 23
- MMA Partners x

N

- Net change 82
- notes xiii

O

- Online proposals
 - working with 50
- Order Type 20
- Output
 - project requirements planning 62
- Overview
 - Engineer to Order 7
 - engineer to order and project phases 7
 - engineer to order project phases 7
 - project close phase 8
 - project execution and control phase 8
 - project initiation phase 7
 - project planning phase 8

P

- P31P100 (Project Quotes)
 - processing options 51
- PeopleBooks
 - ordering x
- PeopleCode, typographical conventions xii
- PeopleSoft application fundamentals ix
- Planned costs
 - assigning 46
- Planning and Scheduling 67
- Plant Maintenance Management 21
- prerequisites ix
- printed documentation x
- Processing options
 - Commitment Rebuild
 - Process 79
 - Commitment Rebuild (R31P993) 79
 - Cost Classifications
 - Defaults 18
 - Creating Projects
 - Categories 39
 - Dates 37
 - Estimate Costs 38
 - Job Cost 38
 - Order Information 39
 - People 37
 - Project Attributes 38
 - Project Information 36
 - Sales Order 40
 - Export to MS-Project (R31P404) and Import from MS-Project (R31P801) 24
 - MS-Project Import and Export
 - Guidelines 26
 - Process 24
 - P31P100 (Project Quotes) 51
 - Process 33
 - Project Cost
 - Process 86
 - Project Cost Report (R31P401) 86
 - Project Inventory Report
 - Process 87
 - Project Inventory Report (R31P402) 87
 - Project Quotes
 - Default 52
 - Display 51
 - Process 52
 - Versions 53
 - Project Schedule Report
 - Defaults 86
 - Process 85
 - Project Schedule Report (R31P400) 85
 - Project Workbench
 - Copy 34
 - Defaults 31
 - Scheduling 35
 - Versions 31
 - Project Workbench (P31P001) 30
 - Related Orders (P31P204) 74
 - Related Orders Program
 - Versions 74
 - Upload Job Cost Budgets
 - Audit Trail 60
 - Display 59
 - Edits 59
 - Process 59
 - Upload Job Cost Budgets (R31P800) 58
- Procurement 3
 - integration 12
- Product data management
 - integration 10
- Product Data Management 1
- Programs
 - Project Close Analyzer (R31P403) 89
- Programs and IDs
 - P31P011 (Add/Revise Project) 28
- Programs and IDs
 - P3111 (Work Order Parts List) 73
 - P31P001 (Project Workbench) 47, 73, 74, 75
 - P31P100 (Project Quotes) 53, 54
 - P31P201 (Work Order Parts List) 73
 - P3411 (MRP/MPS Detail Message Revisions) 64, 65
 - P4021 (Supply and Demand Inquiry) 64
 - P4310 (Enter Purchase Order) 72
 - P4801S (Work Order Search) 75
 - R31P301 (Rollup of Actual Costs to Workbench) 84
 - R31P405 (Update Related Costs) 75
 - R3483 (Master Planning Schedule - Multiple Plant) 63, 64
- Project accounting 82
- Project Accounting 20
- Project alerts 84
- Project Billing Method 20

- Project budgets
 - loading to the job cost budget 58
- Project Close Analyzer program (R31P403) 89
- Project close phase overview 8
- Project Commitments 75
- Project Cost Report (R31P401)
 - processing options 86
- Project execution and control 81
- Project execution and control phase overview 8
- Project initiation phase overview 7
- Project Initiation Process 27
- Project Inventory Report (R31P402)
 - processing options 87
- Project life cycle 8
- Project management software
 - Microsoft Project 23
- Project phases
 - engineer to order overview 7
- Project planning 57
 - multiplant requirements planning 64
- Project planning phase overview 8
- Project Quote Inactive Reason Code 20
- Project Quote Status 20
- Project Quotes (P31P100)
 - Work With Project Quote 53, 54
- Project reports 84
- Project requirements planning
 - multiplant 64
 - replenishment order 64
- Project requirements planning (PRP) 60
- Project requirements planning for multiple plants 63
- Project requirements planning
 - generation 61
- Project requirements planning output 62
- Project Schedule Report (R31P400)
 - processing options 85
- project status codes 49
- Project tasks
 - scheduling 44
- Project Workbench (P31P001)
 - processing options 30
 - Work with Projects 73, 74
- Project-specific material
 - Defining 16
- Projects
 - creating 28
- PRP

- project requirements planning 60
- Purchasing project items for resale 68
- Purchasing project material 68

Q

- Quality management
 - integration 11
- Quality Management 2
- Quantity Type 21
- Quotes and proposals
 - generating 48

R

- Rebuilding the audit trail for financial commitments 78
- related documentation x
- Related order
 - updating accumulated costs 75
- Related Orders (P31P204)
 - processing options 74
- Requirements planning 11
- Requirements Planning 2
- Resource Assignment Level 21
- Rolling up actual costs to the project workbench 84

S

- Sales order management
 - integration 12
- Sales Order Management 3
- Scheduling project tasks 44
- Scheduling tasks 47
- Service billing
 - integration 12
- Service Billing 3
- Setting up Engineer to Order 15
- Setting up job cost integration 21
- Shop floor management
 - integration 11
- Shop Floor Management 2
- Stocking Type Code 20
- Storing project information 29
 - technical considerations 29
- suggestions, submitting xiv
- System features
 - project alerts 10
 - project costing and budgeting 9
 - project materials plans 10
 - project proposals 10

- project quotes 10
- project schedules and reports 10
- System integration
 - capital asset management 11
 - contract billing 12
 - inventory management 10
 - job cost 11
 - procurement 12
 - product data management 10
 - quality management 11
 - requirements planning 11
 - sales order management 12
 - service billing 12
 - shop floor management 11
- System overview
 - tables 12

T

- Tables
 - Cost Classificationle (F31P21) 13
 - Project Attributes (F31P01) 13
 - Project Commitment Detaille (F410211) 13
 - Project Quote Detail (F31P11) 13
 - Project Quote Header (F31P10) 13
 - Related Order Cross Referencele (F4080) 13
 - Task Dependencies (F31P12) 13
 - Work Order Master File (F4801) 28
- Task dependencies
 - defining 44
- Task Dependency Type 20
- Task types
 - Engineer to Order 15
- Tasks
 - assigning resources 45
- Technical considerations for storing project information 29
- Text Substitution Based on table 21
- Text Substitution Code 21
- typographical conventions xii

U

- Updating accumulated related order costs 75
- Upload Job Cost Budgets (R31P800)
 - processing options 58
- User defined codesle
 - 34/QT (Quantity Types) 64

- User-defined codes for Engineer to Order 20

V

- visual cues xiii

W

- warnings xiii
- Working with online proposals 50
- Working with replenishment orders for multiplant PRP 64

