

R11i Setting Up and Implementing Engineering

Student Guide

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Preface

Profile

Before You Begin This Course

Before you begin this course, you should have the following qualifications:

- Thorough knowledge of setting up Items in Oracle Inventory
- Working experience with bills of material in Oracle Bills of Material

Prerequisites

- There are no prerequisites for this course.

How This Course Is Organized

R11I Setting Up and Implementing Engineering is an instructor-led course featuring lecture and hands-on exercises. Online demonstrations reinforce the concepts and skills introduced.

Related Publications

Oracle Publications

Title	Part Number
-------	-------------

None	
------	--

Additional Publications

- System release bulletins
- Installation and user's guides
- *read.me* files
- *Oracle Magazine*

Typographic Conventions

Typographic Conventions in Text

Convention	Element	Example
Bold italic	Glossary term (if there is a glossary)	The <i>algorithm</i> inserts the new key.
Caps and lowercase	Buttons, check boxes, triggers, windows	Click the Executable button. Select the Can't Delete Card check box. Assign a When-Validate-Item trigger to the ORD block. Open the Master Schedule window.
Courier new, case sensitive (default is lowercase)	Code output, directory names, filenames, passwords, pathnames, URLs, user input, usernames	Code output: <code>debug.set ('I', 300);</code> Directory: <code>bin (DOS), \$FMHOME (UNIX)</code> Filename: Locate the <code>init.ora</code> file. Password: User <code>tiger</code> as your password. Pathname: Open <code>c:\my_docs\projects</code> URL: Go to <code>http://www.oracle.com</code> User input: Enter <code>300</code> Username: Log on as <code>scott</code>
Initial cap	Graphics labels (unless the term is a proper noun)	Customer address (<i>but</i> Oracle Payables)
Italic	Emphasized words and phrases, titles of books and courses, variables	Do <i>not</i> save changes to the database. For further information, see <i>Oracle7 Server SQL Language Reference Manual</i> . Enter <code>user_id@us.oracle.com</code> , where <i>user_id</i> is the name of the user.
Quotation marks	Interface elements with long names that have only initial caps; lesson and chapter titles in cross-references	Select "Include a reusable module component" and click Finish. This subject is covered in Unit II, Lesson 3, "Working with Objects."
Uppercase	SQL column names, commands, functions, schemas, table names	Use the SELECT command to view information stored in the LAST_NAME column of the EMP table.

Convention	Element	Example
Arrow	Menu paths	Select File—> Save.

Brackets	Key names	Press [Enter].
Commas	Key sequences	Press and release keys one at a time: [Alternate], [F], [D]
Plus signs	Key combinations	Press and hold these keys simultaneously: [Ctrl]+[Alt]+[Del]

Typographic Conventions in Code

Convention	Element	Example
Caps and lowercase	Oracle Forms triggers	When-Validate-Item
Lowercase	Column names, table names	SELECT last_name FROM s_emp;
	Passwords	DROP USER scott IDENTIFIED BY tiger;
	PL/SQL objects	OG_ACTIVATE_LAYER (OG_GET_LAYER ('prod_pie_layer'))
Lowercase italic	Syntax variables	CREATE ROLE <i>role</i>
Uppercase	SQL commands and functions	SELECT userid FROM emp;

Typographic Conventions in Navigation Paths

This course uses simplified navigation paths, such as the following example, to direct you through Oracle Applications.

(N) Invoice > Entry > Invoice Batches Summary (M) Query > Find (B) Approve

This simplified path translates to the following:

1. (N) From the Navigator window, select Invoice > Entry > Invoice Batches Summary.
2. (M) From the menu, select Query > Find.
3. (B) Click the Approve button.

Notations :

(N) = Navigator

(M) = Menu

(T) = Tab

(I) = Icon

(H) = Hyperlink

(B) = Button

Typographical Conventions in Help System Paths

This course uses a “navigation path” convention to represent actions you perform to find pertinent information in the Oracle Applications Help System.

The following help navigation path, for example—

(Help) General Ledger > Journals > Enter Journals

—represents the following sequence of actions:

1. In the navigation frame of the help system window, expand the General Ledger entry.
2. Under the General Ledger entry, expand Journals.
3. Under Journals, select Enter Journals.
4. Review the Enter Journals topic that appears in the document frame of the help system window.

Getting Help

Oracle Applications provides you with a complete online help facility.

Whenever you need assistance, simply choose an item from the Help menu to pinpoint the type of information you want.

To display help for a current window:

1. Choose Window Help from the Help menu, click the Help button on the toolbar, or hold down the Control key and type 'h'.

A web browser window appears, containing search and navigation frames on the left, and a frame that displays help documents on the right.

The document frame provides information on the window containing the cursor. The navigation frame displays the top-level topics for your responsibility, arranged in a tree control.

2. If the document frame contains a list of topics associated with the window, click on a topic of interest to display more detailed information.

3. You can navigate to other topics of interest in the help system, or choose Close from your web browser's File menu to close help.

Searching for Help

You can perform a search to find the Oracle Applications help information you want. Simply enter your query in the text field located in the top-left frame of the browser window when viewing help, then click the adjacent Find button.

A list of titles, ranked by relevance and linked to the documents in question, is returned from your search in the right-hand document frame. Click on whichever title seems to best answer your needs to display the complete document in this frame. If the document doesn't fully answer your questions, use your browser's Back button to return to the list of titles and try another.

R11i Setting Up and Implementing Engineering

Chapter 1

R11i - Setting Up and Implementing Engineering

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Objectives

After completing this course, you should be able to do the following:

- **Set up the Oracle Engineering module**
- **Identify implementation considerations**
- **Prepare to enter items, bills of material and routings**
- **Prepare to perform transfers, engineering changes, mass changes and deletions**

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Agenda

Agenda

- **Product Overview**
- **Module setup**
- **Set up to enter Items and Bills of Material**
- **Set up to enter Routings**
- **Set up to perform Product Maintenance**
- **Summary**

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Agenda

Agenda

- **Product Overview**
- Module setup
- Set up to enter Items and Bills of Material
- Set up to enter Routings
- Set up to perform Product Maintenance
- Summary

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Product Overview

- The Oracle engineering products include Oracle Bills of Material and Oracle Engineering.
- You use Oracle Bills of Material to do the following:
 - Create and maintain production items
 - Create and maintain production bills of materials
 - Create and maintain production resources, departments, routings, and lead times
 - Perform mass changes
 - Delete product information
 - Maintain the workday calendar

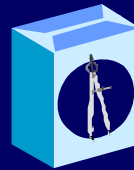


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Product Overview

- You use Oracle Engineering to do the following:
 - Create and maintain engineering items
 - Create and maintain engineering bills of materials
 - Create and maintain engineering resources, departments, routings, and lead times
 - Transfer engineering product information to production
 - Process engineering change orders
 - Perform mass changes
 - Delete product information



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Agenda

Agenda

- Product Overview
- **Module setup**
- Set up to enter Items and Bills of Material
- Set up to enter Routings
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Setup Overview

To set up the engineering modules you can use the Oracle Applications Implementation Wizard.

- Using the Wizard is optional.
- If implementing more than one Oracle Applications product, it is recommended that you use the Applications Implementation Wizard to coordinate setup steps.
- It suggests a logical sequence of steps that satisfy cross-product dependencies and reduces redundant steps.

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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting Up > Setup Overview

Setup Overview

- **Oracle Application Implementation Wizard (cont.)**
 - The Wizard guides you through setup for just the applications you have installed.
 - The wizard can also document your implementation for future reference and review, including your comments at each step.

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Setup Overview

In addition to setting up Oracle Engineering you must set up the underlying Oracle applications technology. These steps are discussed in detail in other courses.

- Perform system wide setup tasks such as configuring concurrent managers and printers.
- Manage data security, which includes setting up responsibilities, and assigning users to one or more of these responsibilities
- Set up Oracle Workflow



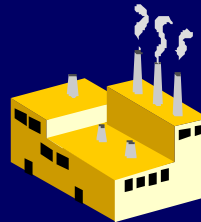
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Related Application Setups

Before you set up Oracle Engineering you must complete the setup for the following:

- **Define items In Oracle Inventory**
- **Set up the Oracle Bills of Material module**



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Setup Step 1 of 9

Step 1 - Set Profile Options (Required)

- Profile options control how Oracle Engineering manages access to and processes data.
- Profile options can be set at one or more of the following levels
 - site
 - application
 - responsibility
 - user
- Perform this step once for each entity (site, application, responsibility or user)

Oracle Engineering: (N) Setup > Profiles

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Setup Step 2 of 9

Step 2 - Enter Employees (Required)

- Define employees for your organization. Engineering Change Order (ECO) requestors and approvers must be defined as employees.
- If you have Oracle Human Resource Management Systems installed, enter employees there. If not, enter employees in Oracle Engineering.
- Perform this step once for each entity organization.

Oracle Engineering:
(N) Setup > Employees



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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO Approval Lists

Setup Step 3 of 9

Step 3 - Define Change Order Types (Optional)

- You can assign a change order type to your ECOs from a seeded list of change order types or you can define your own.
- You can create change order types for ECOs with manufacturing items or manufacturing and engineering items.
- If you skip this step, the change order types shipped with Oracle Engineering will be used as the default.
- Perform this step once per installation.

Oracle Engineering: (N) Setup > Change Types

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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO types

Setup Step 4 of 9

Step 4 - Define ECO Departments (Optional)

- You can group users that use the ECO system into one or more departments within your inventory organization.
- You can restrict access to ECOs by ECO department.
- You can require an ECO department on all ECOs.
- You can change the ECO department as the ECO moves through multiple departments.
- Perform this step once per organization.

Oracle Engineering: (N) Setup > ECO Departments

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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO Approval Lists

Setup Step 5 of 9

Step 5 - Define Autonumbering (Optional)

- You can define customized autonumbering for new ECOs and mass change orders.
- Autonumbering can be by user, organization or site.
- You can use the assigned autonumber or override the autonumber and assign your own number.
- Perform this step once per organization user.

Oracle Engineering: (N) Setup > Autonumbering

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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO Autonumbering

Setup Step 6 of 9

Step 6 - Define Approval Lists (Optional)

- You can define lists of approvers required to review an ECO before it can be released.
- Oracle engineering can be used to notify people on the list with an alert, that an ECO requires their review.
- Note: Oracle Workflow can also be used to notify approvers; as well as tabulate and evaluate responses.
- Perform this step once per installation.

Oracle Engineering: (N) Setup > Approval Lists

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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO Approval Lists

Setup Step 7 of 9

Step 7 - Define Reasons (Optional)

- You can define reasons for engineering change orders using your own terminology.
- ECO Reasons are used for your reference only.
- If you skip this step, the reasons shipped with Oracle Engineering will be used as the default.
- Perform this step once per organization.

Oracle Engineering: (N) Setup > Reasons



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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO Reasons

Setup Step 8 of 9

Step 8 - Define Priorities (Optional)

- You can define scheduling priorities for ECOs to describe the urgency of your ECO.
- Priorities are for your reference only.
- If you skip this step, the priorities shipped with Oracle Engineering will be used as the default.
- Perform this step once per organization.

Oracle Engineering: (N) Setup > Priorities

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Help: Oracle Manufacturing Applications > Oracle Engineering > Setting UP > Defining ECO Priorities

Setup Step 9 of 9

Step 9 - Start AutoImplement Manager (Optional)

- If you automatically implement ECOs, you must specify the frequency that you want the AutoImplement Manager to run.
- Once the ECO has been released to the AutoImplement manager, you can automatically implement all scheduled ECO revised items with effective dates less than or equal to the current date.
- Perform this step once per organization.

Oracle Engineering: (N) Setup > AutoImplement

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Help: Oracle Manufacturing Applications > Oracle Engineering > Reports and Processes > Starting the AutoImplement Manager

Engineering Alerts

Engineering includes two pre-coded alerts that you can use with or without customizing.

- **ECO Approval Notification**
 - Notifies all users on the ECO's approval list that an ECO requires their approval
- **ECO Use Up Date**
 - Notifies the ECO planner that a plan date for use-up item has changed



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Review Question

Review Question

To implement Oracle Engineering you must do which of the following?

- A. Run the Applications Implementation Wizard
- B. Perform system wide setups
- C. Set up and assign responsibilities to users
- D. Set up Oracle Bills of Material
- E. Set up Oracle Inventory
- F. Set up Oracle General Ledger
- G. Set up Oracle Workflow

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Answer to Review Question

To implement Oracle Engineering you must do which of the following?

- A. Run the Applications Implementation Wizard
- B. Perform system wide setups**
- C. Set up and assign responsibilities to users**
- D. Set up Oracle Bills of Material**
- E. Set up Oracle Inventory**
- F. Set up Oracle General Ledger
- G. Set up Oracle Workflow**

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Implementation Considerations for Items and Bills of Material

Implementation Considerations for Items and Bills of Material

- How many bill of material levels will you structure your bills of material?
- Will you use phantoms?
- What item templates will you use?
- What item catalog groups will you use?
- Will you use engineering and production items with bills of material or only production items with bills of material?
- Will you use reference designators?

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Implementation Considerations for Items and Bills of Material

Implementation Considerations for Items and Bills of Material

- Who will be responsible for converting current bills of material? How will they accomplish the conversion?
- Who will be responsible for maintaining bills of material? What process will you use to request and approve bill of material changes?
- How will you use item revisions?
- What alternate bills of material will you use?
- Will you use copy and common bills?

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Setup for Items and Bills of Material

- Set up Key Flexfields
- Set up Bills of Material Parameters
- Set up Personal Profiles
- Set up Security Functions
- Request BOM Setup Reports



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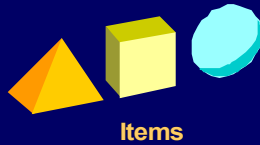
Key Flexfield Segments

Key Flexfield Segments

Use the Key Flexfield Segments form to create the item number flexfield.

Oracle Engineering: (N) Setup > Flexfields > Key > Segments

Oracle Bills of Material: (N) Setup > Flexfields > Key > Segments



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Segments Summary

Segments Summary

Use the Segments Summary form to specify the number and length of each item flexfield segment.

Oracle Engineering: (N) Setup > Flexfields > Key > Segments (B) Segments

Oracle Bills of Material: (N) Setup > Flexfields > Key > Segments (B) Segments

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Parameters

Use the Parameters form to specify the Bill of Material parameters:

Oracle Bills of Material: (N) Setup > Parameters

- **Max Bill Levels:** Enter the number of bill of material levels that the indented bill of material explosion should display.
- **Inactive Status:** Enter an Oracle Inventory item status to indicate the status that you assign to configured items that you want Oracle Bills of Material to delete.

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Parameters

Use the Parameters form to specify the Bill of Material parameters: (continued)

Oracle Bills of Material: (N) Setup > Parameters

- **Numbering Segment:** Enter the item number segment that you want to be unique for each configured item number.
- **Numbering Method:** Choose a button to specify the information that the ATO process should place in the unique segment of configured item numbers.

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Personal Profile Options

In the Personal Profile form enter personal profile option values in the User Value field.

Oracle Engineering: (N) Setup > Profiles

Oracle Bills of Material: (N) Setup > Profiles

- **Component Item Sequence Increment:** Indicates the value by which the bill of material form should increase the component sequence numbers.
- **Default Bill of Material Levels:** Indicates the number of bill of material levels that the indented bill of material explosion should display. This value defaults to the bill of material parameters.

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Personal Profile Options

- **Default WIP Supply Values for Components:** Select “Yes” to instruct Oracle Work In Process to use values for WIP Supply Type, WIP Supply Subinventory, and WIP Supply Locator from the assembly item’s bill of material when creating a work order or repetitive schedule pick list. Select No to instruct Oracle Work In Process to use values for WIP Supply Type, WIP Supply Subinventory, and WIP Supply Locator from the component item when creating a work order or repetitive schedule pick list.
- **Model Item Access:** Indicates whether the user can define and update bills of material for model and option class items.

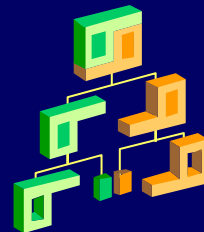
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Personal Profile Options

Personal Profile Values: Bills of Material

- **Planning Item Access:** Indicates whether a holder of this responsibility can define and update bills of material for planning items.
- **Standard Item Access:** Indicates whether a holder of this responsibility can define and update bills of material for standard items.



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Personal Profile Options

Personal Profile Values: Configured Items

- **Check for Duplicate Configuration:** Indicates that the ATO process should search for an existing configured item before creating a new item. For this feature to work, you must program the search method that you want the ATO process to use.
- **Configuration Item Delimiter:** Indicates the character that the ATO process should use to separate the order and line numbers in the item number segment of newly-configured items. The ATO process uses this delimiter when you indicate in the bill-of-material parameters to replace the base model's segment value with the order number/line number.

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Personal Profile Options

Personal Profile Values—Configured Items (continued)

- **Configuration Item Type:** Indicates the item type that the ATO process should set on the new configuration items.
- **Days Past Before Starting Cutoff of Order Entry Bills:** Indicates the number of past days that Oracle Bills of Material should save versions of Order Entry bills of material in the pre-explosions table.

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Personal Profile Options

Personal Profile Values—Configured Items (continued)

- **Inherit Option Class Operation Sequence Number:** Indicates whether to allow components on model bills to inherit operation information from parent items.
- **Perform Lead Time Calculations:** Indicates whether the ATO process should calculate lead times of newly-configured items that it creates.

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Security Functions

- **Security Functions** are maintained by the **System Administrator** to control what engineering functionality is available to users.
- There are two security functions in engineering items:
 - **Delete:** Determines whether engineering items can be deleted from the **Bills of Material** window or the **Routings** window.
 - **Revisions:** Determines whether revisions for engineering items can be updated.



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BOM Setup Reports

Use the BOM Setup Reports form to request setup reports.

Oracle Bills of Material: (N) Reports > Setup > BOM Setup Reports

- Alternates Report
- Bills of Material Parameters Report
- Department Resources Report
- Workday Exception Sets Report



Reports

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Review Question

Which of the following are not setup steps to implement items and bills of material?

- A. Set up Item Categories Flexfield**
- B. Set up Bills of Material Parameters**
- C. Set up Personal Profiles**
- D. Set up Security Functions**
- E. Request BOM Setup Reports**

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Answer to Review Question

Which of the following are not setup steps to implement items and bills of material?

- A. Set up Item Categories Flexfield
- B. Set up Bills of Material Parameters**
- C. Set up Personal Profiles**
- D. Set up Security Functions**
- E. Request BOM Setup Reports**

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Agenda

Agenda

- Product Overview
- Module setup
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- **Set up to enter Routings**
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Implementation Considerations for Routings

Routings specify the sequence of steps, resources and departments used to manufacture and schedule assembly items.

- **Will you use engineering and production routings or only production routings?**
- **Who will be responsible for converting current routings? How will they accomplish it?**
- **Who will be responsible for maintaining routings? What process will you use to request and approve routing changes?**
- **How will you use routing revisions?**

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Implementation Considerations for Routings

Implementation Considerations for Routings

- What alternate routings will you use?
- Will you use copy and common routings?
- What resources and departments will you use?
- How will you use capacity changes?
- Will you use standard operations?
- How will you determine lead times? Who will be responsible for converting, entering, and maintaining lead times? How will they accomplish it?



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Setup for Routings

- **Set up Locations**
- **Set up Personal Profiles**
- **Request BOM Setup Reports**



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Locations

Locations

**Use the Location form to enter location information.
You assign locations to departments that receive
deliveries of outside processing items.**

Oracle Bills of Material: (N) Setup > Locations

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Personal Profile Options

In the Personal Profile form, enter personal profile option values in the User Value field.

Oracle Engineering: (N) Setup > Profiles

Oracle Bills of Material: (N) Setup > Profiles

- **Hour UOM:** Indicates the unit of measure that represents an hour. You cannot schedule resources whose unit of measure is not in the same class as the hour unit of measure.
- **Update Resource UOM:** Indicates whether you can update the resource unit of measure.

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BOM Setup Reports

BOM Setup Reports

Use the BOM Setup Reports form to request setup reports.

Oracle Bills of Material: (N) Reports > Setup > BOM Setup Reports

- Alternates Report
- Bills of Material Parameters Report
- Department Resources Report
- Workday Exception Sets Report



Reports

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Review Question

Review Question

Which of the following are not setup steps to implement routings?

- A. Set up Locations**
- B. Set up Security Functions**
- C. Set up and assign responsibilities to users**
- D. Request BOM Setup Reports**

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Answer to Review Question

Which of the following are not setup steps to implement routings?

- A. Set up Locations**
- B. Set up Security Functions**
- C. Set up and assign responsibilities to users**
- D. Request BOM Setup Reports**

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Agenda

Agenda

- Product Overview
- Module setup
- Set up to enter Items and Bills of Material
- Set up to enter Routings
- **Set up to perform Product Maintenance**
- Summary

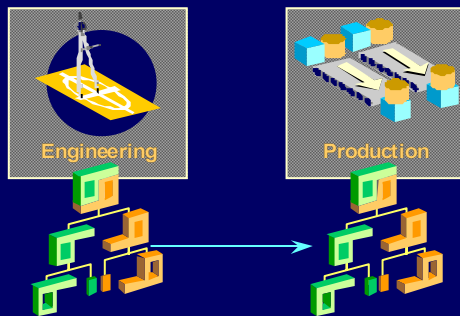
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Implementation Considerations for Product Maintenance

Implementation Considerations for Product Maintenance

- When and how will you transfer engineering product information to production information? Will you use the same item numbers or different item numbers between engineering items and production items?



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Implementation Considerations for Product Maintenance

- Will you use ECOs? What ECO process will you use? Will you use an approval process and will it be the process in Oracle Engineering or in Oracle Workflow?
- Will you use the Use Up functionality? If not, how will you decide when to implement the change? How will you evaluate existing discrete jobs and repetitive schedules in light of an engineering change?

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Implementation Considerations for Product Maintenance

Implementation Considerations for Product Maintenance

- Will you use Oracle Engineering for performing mass changes? Will you use Oracle Bills of Material for performing mass changes?
- Will you delete and archive information or only delete? What information will you delete and archive? How often and who will delete and archive information? What delete constraints will you develop?

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Setup for Product Maintenance

- **Start AutoImplement Manager**
- **Define Deletion Constraints**
- **Set Personal Profiles**
- **Set Security Functions**
- **Request Setup Reports**



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AutoImplement Manager

Use the Start AutoImplement Manager form to request the AutoImplement Manager to implement ECO revised items with status Scheduled whose schedule date is current or past.

Oracle Engineering: (N) Setup > AutoImplement



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Deletion Constraints

Deletion Constraints

Use the Deletion Constraints form to view the deletion constraints and to create your own deletion constraints.

Oracle Engineering: (N) Setup > Delete Constraints

Oracle Bills of Material: (N) Setup > Delete Constraints

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Personal Profile Options

In the Personal Profile form set your choice for the personal profile option values in the User Value field.

Oracle Engineering: (N) Setup > Profiles

Oracle Bills of Material: (N) Setup > Profiles

- **Change Order Autonumbering:** Indicates whether you can define ECO autonumbering for all users or for yourself only.
- **ECO Department:** Indicates the default department that Oracle Engineering uses when you define an ECO and restricts you to viewing and updating ECOs controlled by your department.

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Personal Profile Options

- **ECO Revision Warning:** Indicates whether to implement ECO revisions with pending lower level revisions. Regardless of your choice, Oracle Engineering issues a warning message when this situation occurs.
- **Engineering Item Change Order Access:** Indicates whether you can revise engineering items in ECOs.
- **Mandatory ECO Departments:** Indicates whether you must assign a department to each ECO.

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Personal Profile Options

- **Model Item Change Order Access:** Indicates whether you can revise model and option class items on ECOs.
- **Planning Item Change Order Access:** Indicates whether you can revise planning items on ECOs.
- **Require Revised Item New Revision:** Indicates whether you must assign a new revision to revised items on ECOs.
- **Standard Item Change Order Access:** Indicates whether you can revise standard items on ECOs.

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Security Functions

- **Security Functions are maintained by the System Administrator to control what engineering functionality is available to users.**
- **There are nine security functions for engineering change orders:**
 - **Approvals: Determines whether you can submit or abort an ECO approval Workflow process.**
 - **Cancel: Determines whether you can cancel ECOs.**



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Security Functions

- **ECO Security Functions: (continued)**
 - **Implement:** Determines whether you can implement ECOs.
 - **Release:** Determines whether you can release ECOs.
 - **Reschedule:** Determines whether you can reschedule ECOs.
 - **Schedule:** Determines whether you can schedule ECOs.

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Security Functions

- **ECO Security Functions: (continued)**
 - **Update:** Determines whether ECOs can be updated.
 - **Delete:** Determines whether you can delete engineering items from the Bills of Material window or the Routings window.
 - **Transfer:** Determines whether you can transfer engineering items to manufacturing.



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BOM Setup Reports

Use the BOM Setup Reports form to request setup reports.

Oracle Bills of Material: (N) Reports > Setup > BOM Setup Reports

- Alternates Report
- Bills of Material Parameters Report
- Department Resources Report
- Workday Exception Sets Report



Reports

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Review Question

Review Question

Which of the following statements is true?

- A. Oracle Bills Of Material can be used to transfer product data to Oracle Engineering.**
- B. The AutoImplement Manager is not required when using Oracle Workflow to approve ECOs.**
- C. The Revisions security function applies to ECOs.**
- D. An engineering profile can be set to make ECO Reasons a mandatory field on ECOs.**

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Answer to Review Question

Which of the following statements is true?

- A. Oracle Bills Of Material can be used to transfer product data to Oracle Engineering.
- B. The AutoImplement Manager is not required when using Oracle Workflow to approve ECOs.**
- C. The Revisions security function applies to ECOs.
- D. An engineering profile can be set to make ECO Reasons a mandatory field on ECOs.

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Agenda

Agenda

- Product Overview
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- **Summary**

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Summary

In this course, you should have learned how to do the following:

- **Set up the Oracle Engineering module**
- **Identify implementation considerations**
- **Prepare to enter items, bills of material and routings**
- **Prepare to perform transfers, engineering changes mass changes and deletions**

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Appendix - Engineering Profiles

- **ENG: Change Autonumbering - System Administrator Access**
 - Indicate whether you can define ECO autonumbering for all users or just yourself.
- **ENG: ECO Department**
 - Indicate the default department used when you define an ECO. Departments are used to control access to update ECO data.
- **ENG: ECO Revision Warning**
 - Indicate whether to raise a warning but still implement ECO revisions with pending lower level revisions (Yes), or to raise an error and not perform the implementation (No or blank)

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Appendix - Engineering Profiles

- **ENG: Engineering Item Change Order Access**
 - Indicate whether you can revise items on ECOs.
- **ENG: Mandatory ECO Departments**
 - Indicate whether it is mandatory to assign a department to each ECO to enforce data security.
- **ENG: Model Item Change Order Access**
 - Indicate whether you can revise model and option class items on ECOs.

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Appendix - Engineering Profiles

- **ENG: Planning Item Change Order Access**
 - Indicate whether you can revise planning items on ECOs.
- **ENG: Require Revised Item New Revisions**
 - Indicate whether it is mandatory to assign a new revision to revised items on ECOs. Blank or “null” is equivalent to No.
- **ENG: Standard Item Change Order Access**
 - Indicate whether you can revise standard items on ECOs.

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Appendix - Security Functions

During Implementation, the system administrator sets up and maintains security functions as well as profile options.

- **Engineering Change Orders: Approvals (ENG_ENGFDECN_APPROVAL)**
 - Determines whether an ECO Workflow process can be submitted or aborted.
- **Engineering Change Orders: Cancel (ENG_ENGFDECN_CANCEL)**
 - Determines whether ECOs can be cancelled.

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Appendix - Security Functions

- **Engineering Change Orders: Implement (ENG_ENGFDECN_IMPLEMENT)**
 - Determines whether ECOs can be implemented.
- **Engineering Change Orders: Release (ENG_ENGFDECN_RELEASE)**
 - Determines whether ECOs can be released.
- **Engineering Change Orders: Reschedule (ENG_ENGFDECN_RESCHEDULE)**
 - Determines whether ECOs can be rescheduled.

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Appendix - Security Functions

- **Engineering Change Orders: Schedule (ENG_ENGFDECN_SCHEDULE)**
 - Determines whether ECOs can be scheduled.
- **Engineering Change Orders: Update (ENG_ENGFDECN_UPDATE)**
 - Determines whether ECOs can be updated.
- **Engineering Change Orders: Delete (ENG_INVIDITM_DELETE)**
 - Determines whether engineering items can be deleted from the Bills of Material or Routings windows.

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Appendix - Security Functions

- **Engineering Change Orders: Revisions (ENG_INVDITM_REVISIONS)**
 - Determines whether revisions for engineering items can be updated.
- **Engineering Change Orders: Transfer (ENG_INVDITM_TRANSFER)**
 - Determines whether engineering items can be transferred to manufacturing.

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