R11i Oracle BOM and Engineering: Defining and Maintaining Engineering Items

Student Guide

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Preface

Profile

Before You Begin This Course

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

- Knowledge of the manufacturing processes

Prerequisites

- Defining & Maintaining Items (Inventory)
- Creating Bill of Materials (BOMs)

How This Course Is Organized

R11*i* Oracle BOM and Engineering: Defining and Maintaining Engineering Items is an instructor-led course featuring lecture and hands-on exercises. Online demonstrations and written practice sessions reinforce the concepts and skills introduced.

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Related Publications

Oracle Publications

Title	Part Number
Oracle Engineering User's Guide	A75090-01
Oracle Inventory User's Guide	A83507-01
Oracle Bill of Material User's Guide	A75087-01

Additional Publications

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

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Typographic Conventions

Typographic Conventions in Text

Convention	Element	Example
Bold italic	Glossary term (if there is a glossary)	The ***algorithm*** 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: `debug.set ('I", 300);` Directory: `bin` (DOS), `$FMHOME` (UNIX) Filename: Locate the `init.ora` file. Password: User `tiger` as your password. Pathname: Open `c:\my_docs\projects` URL: Go to `http://www.oracle.com` User input: Enter `300` Username: Log on as `scott`
Initial cap	Graphics labels (unless the term is a proper noun)	Customer address (*but* Oracle Payables)
Italic	Emphasized words and phrases, titles of books and courses, variables	Do *not* save changes to the database. For further information, see *Oracle7 Server SQL Language Reference Manual.* Enter `user_id@us.oracle.com`, where *user_id* 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.

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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 role`
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

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(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.

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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.

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R11i Oracle BOM and Engineering: Defining and Maintaining Engineering Items

Chapter 1

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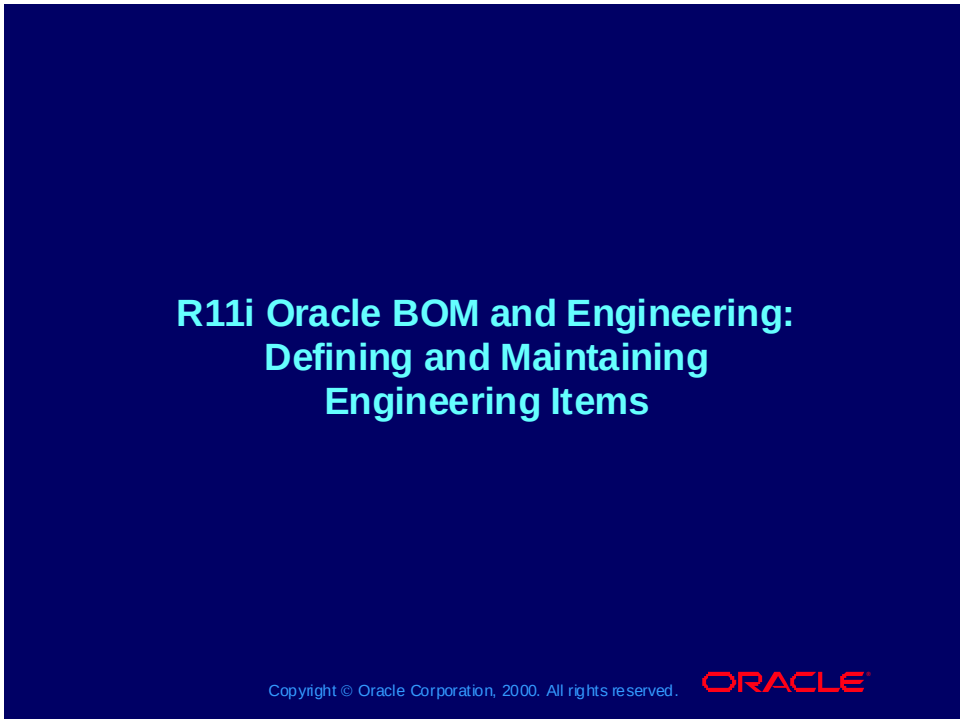

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Objectives

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

- Create engineering items
- Copy from item templates
- Search for engineering items
- View item information and revise item attributes
- Enable organization assignments
- Create item catalog groups
- Create cross references, relationships and documents
- Create deletion groups

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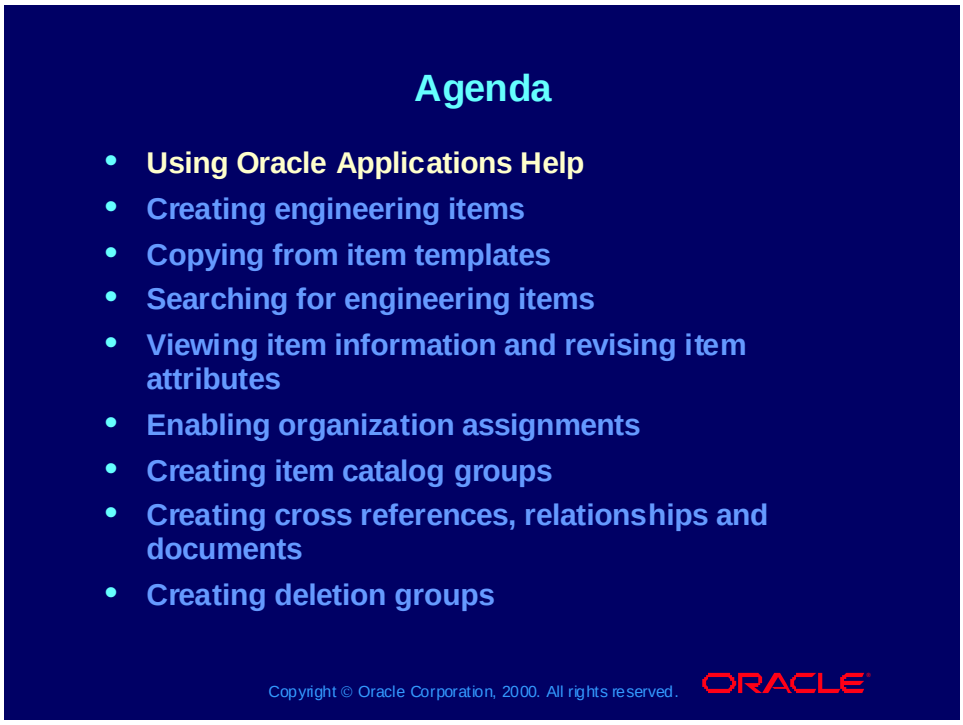
Agenda



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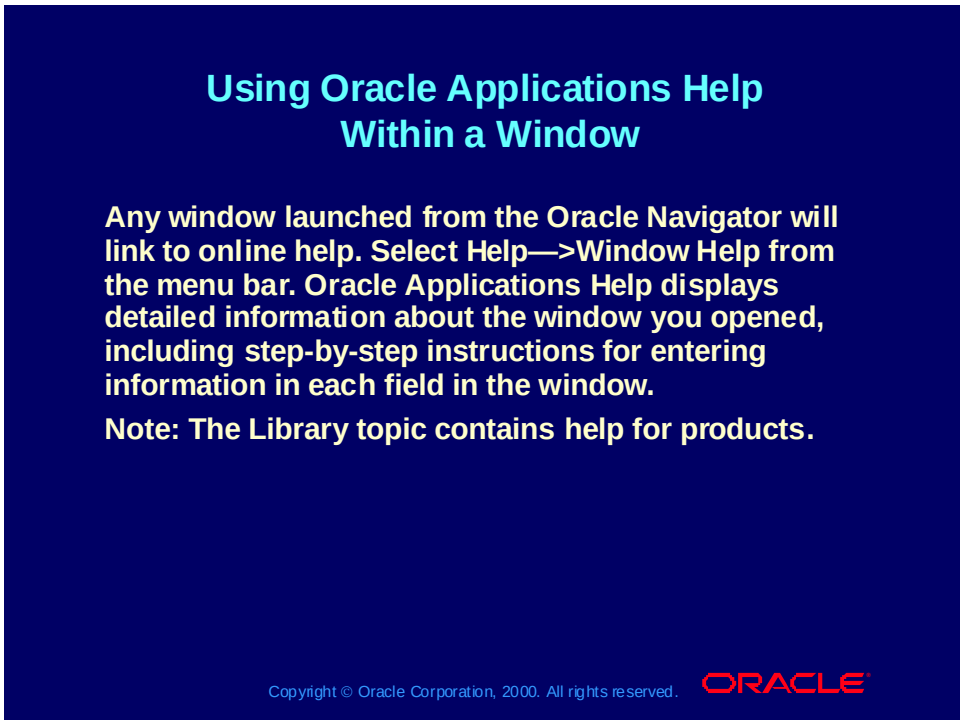
Using Oracle Applications Help Within a Window



Help Note

You can launch Oracle Help using the toolbar “?” icon only from a window that is open from the Navigator. If you launch Oracle Help from a window that is opened via the menu bar, a button, or pop up window, you will receive a http://404 - no data found error.

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Help Note

You can only launch Oracle Help using the toolbar “?” icon from a window that is open from the Navigator. If you launch Oracle Help from a window that is opened via the menu bar, a button, or pop up window, you will receive a http://404 - no data found error.

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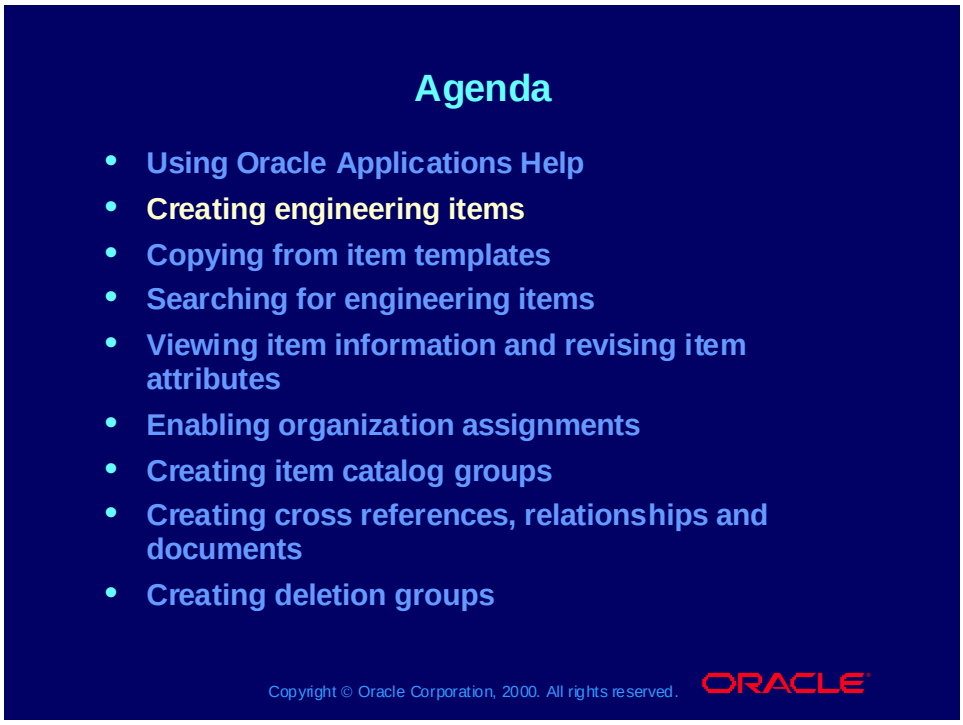

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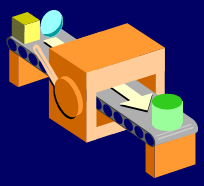
Engineering and Manufacturing Items

- Engineering items are items that your engineering function creates and that are not ready for production (created in Oracle Engineering).

- Manufacturing items are items you use in production (created in Oracle Inventory).



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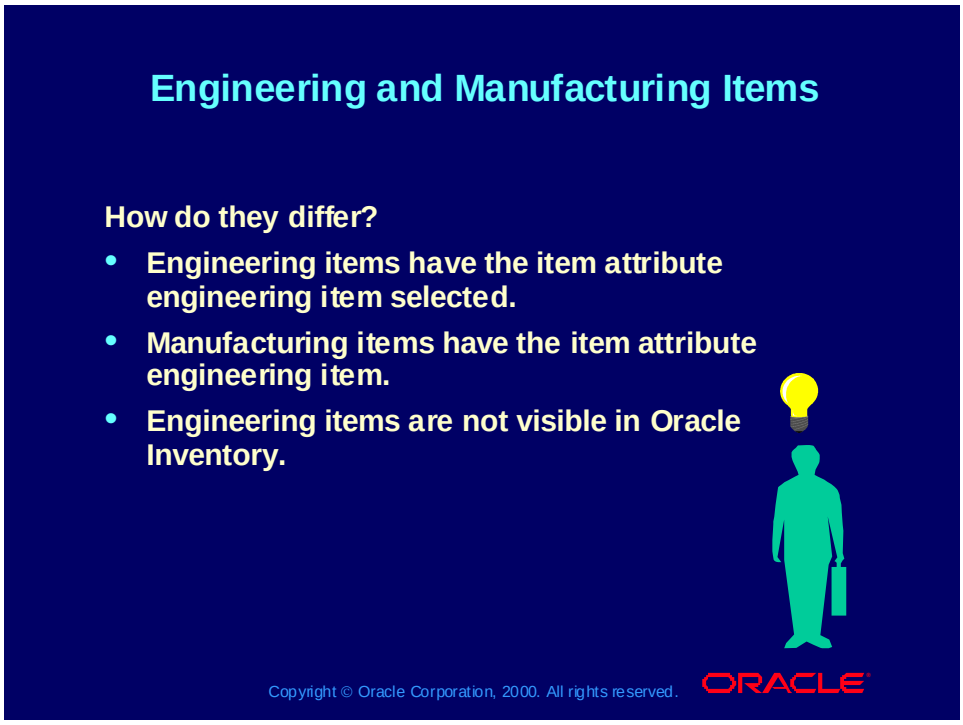

Engineering and Manufacturing Items

Engineering flag is not visible in Oracle Inventory.

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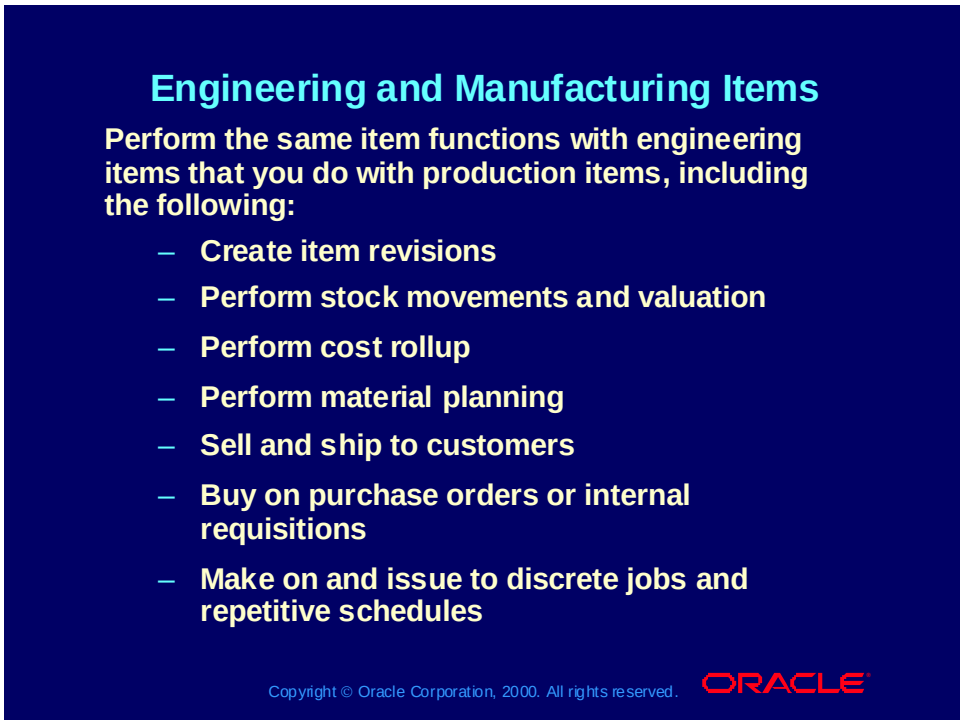

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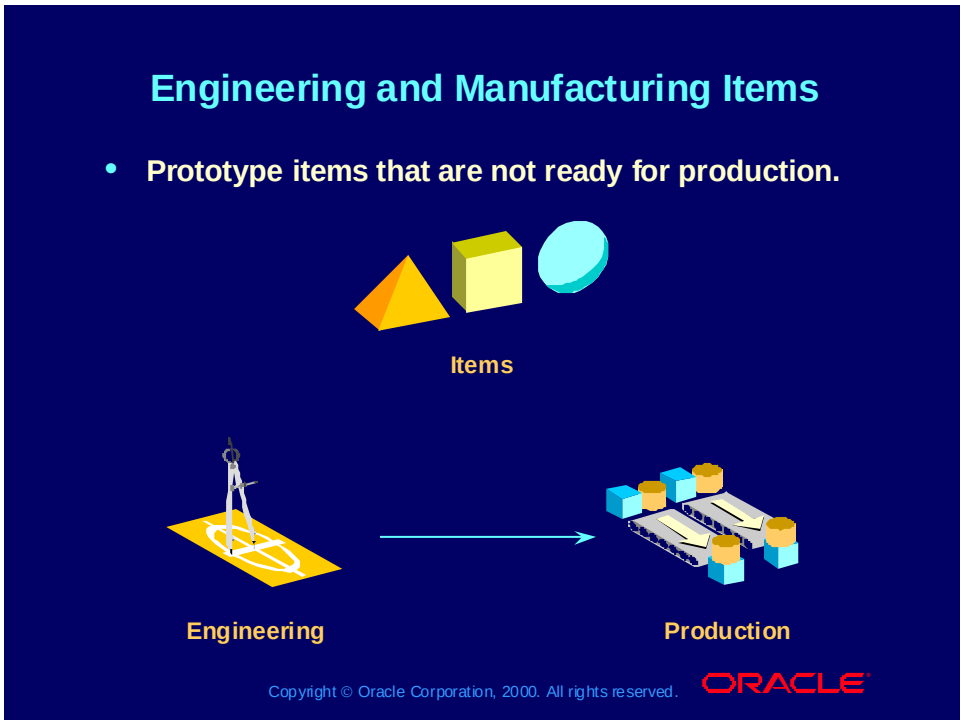

Engineering and Manufacturing Items

The windows that you use to create engineering and manufacturing items are identical. They differ only in the following ways:

- You create and change engineering items using the Oracle Engineering windows. You can create and change manufacturing items using the Oracle Inventory forms.
- When your engineering items are ready for production, you can transfer or copy them to Oracle Inventory as manufacturing items. When you transfer an engineering item, it becomes a manufacturing item. When you copy an engineering item, it remains and you create a manufacturing item with a different item number.

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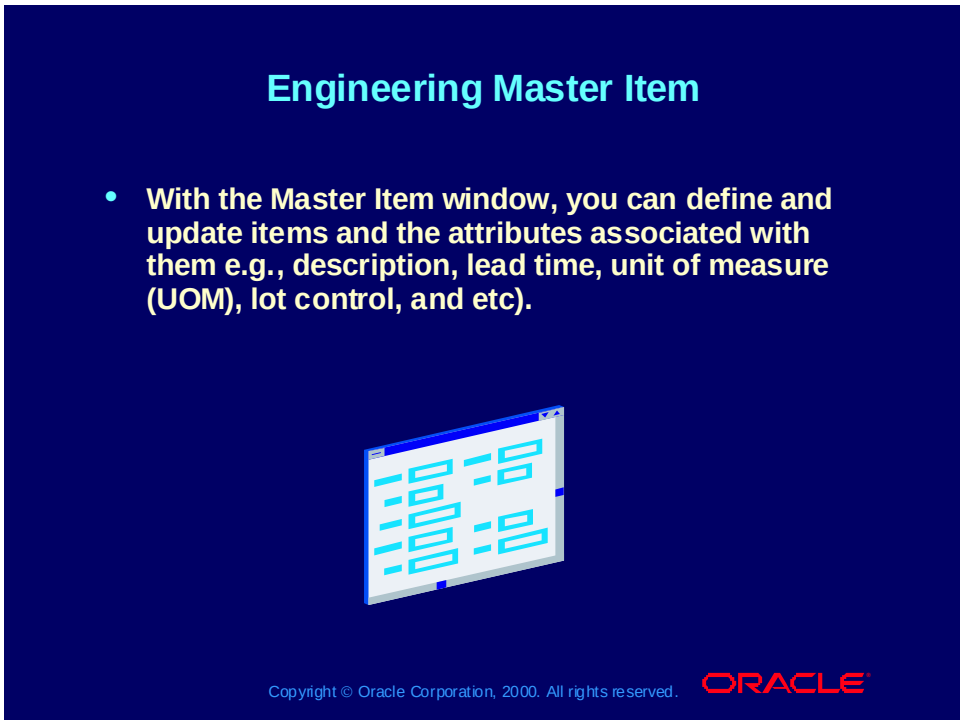

Engineering Master Item

Use this window to create and change engineering items in the same way that you use the corresponding Oracle Inventory window to create and change production items.

(N) Prototypes > Items > Master Items

(Help) Oracle Inventory > Items > Defining Items

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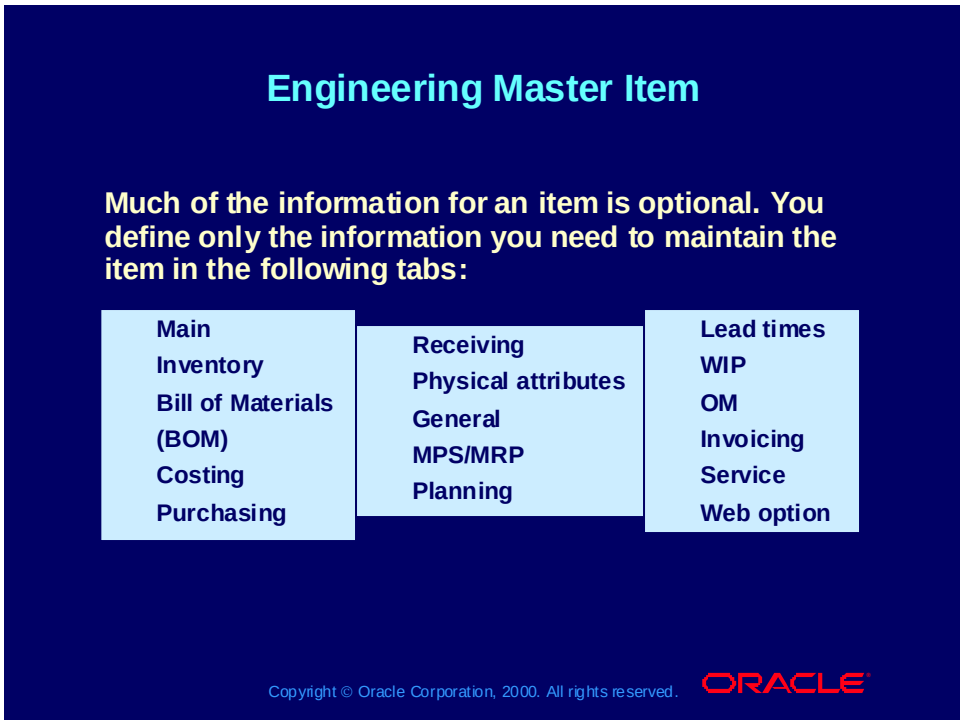

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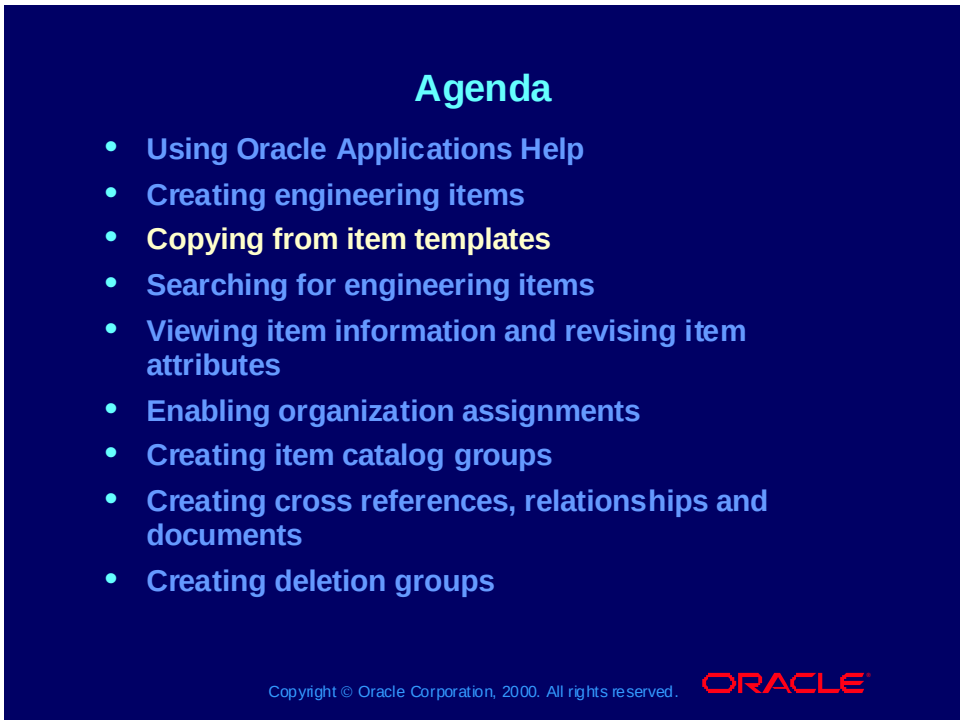

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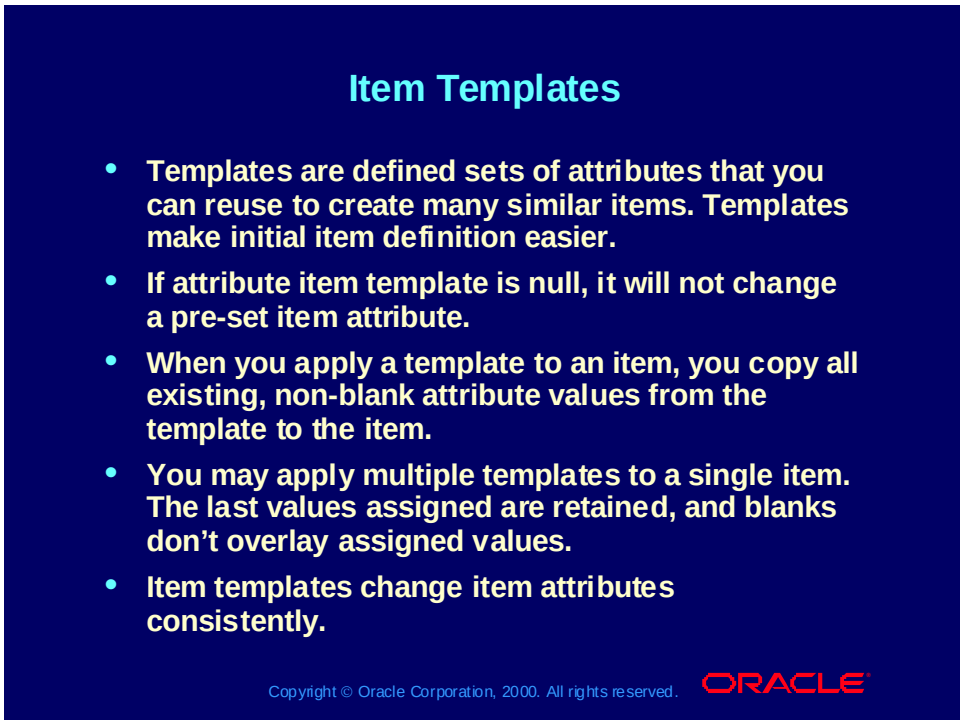

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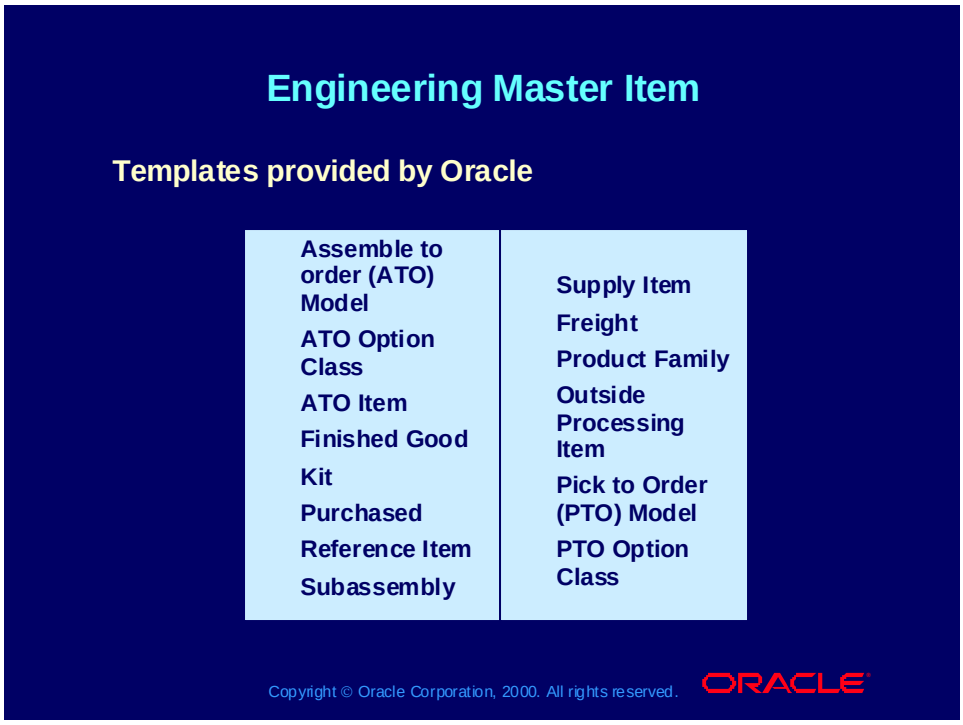

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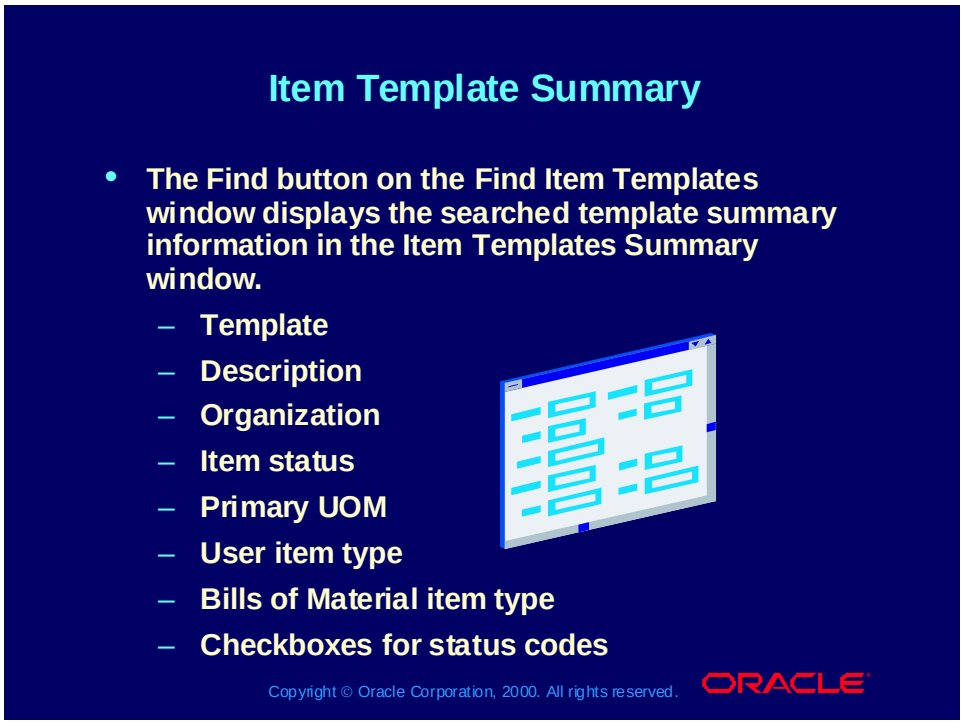
Item Template Summary



Items Templates

Use this window to create and change item attribute templates. Use the same item templates in Oracle Engineering as in Oracle Inventory.

(N) Prototypes > Items > Template (B) Find > Item Templates Summary (B) Open or (B) New

(Help) Oracle Inventory > Items > Defining Items

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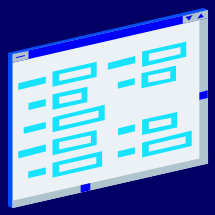
Item Template Summary Window

Item Template Summary Window

- The Open button utilizes existing template information.
- The New button allows for the entering of a new template.



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(N) Prototypes > Items > Template (B) Find > Item Templates Summary (B) Open or (B) New

(Help) Oracle Inventory > Items > Defining Items

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Copying From Templates

Copying From Templates

- Use the copy function from the tools menu in the Engineering Master Item window. This opens the Copy From window, where you can use to copy item attributes from one item to another or from a template.
- You can also create a hybrid template by copying attributes from multiple templates.

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(N) Prototypes > Items > Master Items (M) Tools, Copy From

(N) Prototypes > Items > Template (B) New (M) Copy Template

(Help) Oracle Inventory > Items > Defining Items

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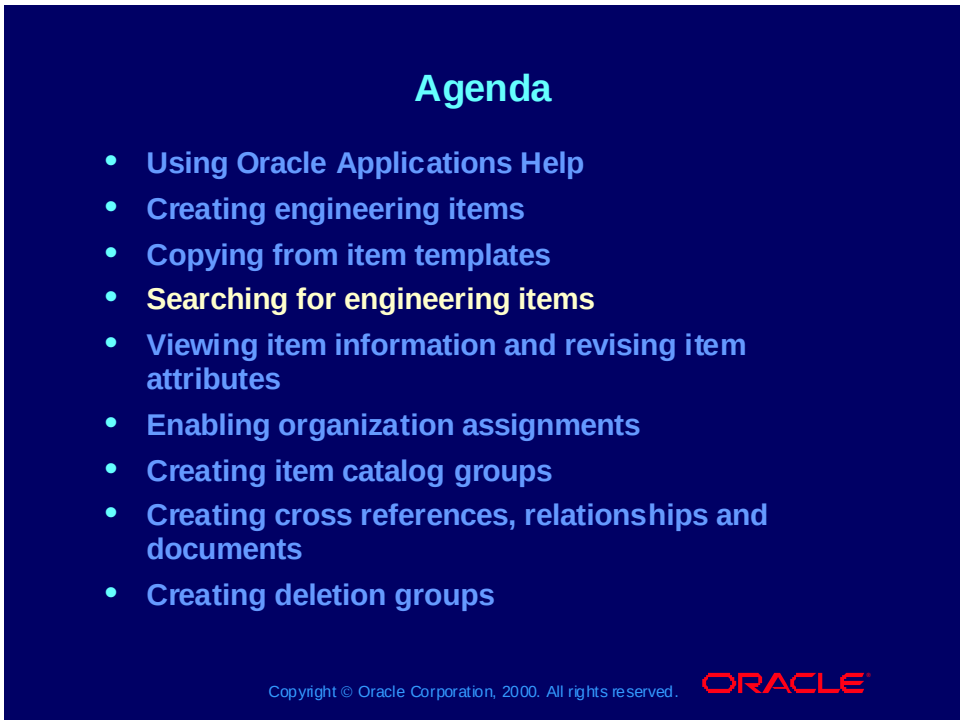

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(N) Prototypes > Items > Item Search (B) Find

(Help) Oracle Inventory > Items > Searching for Items

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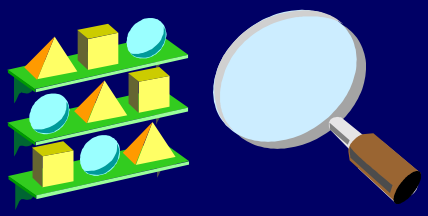
Searching Engineering Items

You can specify as much or as little criteria as you want.



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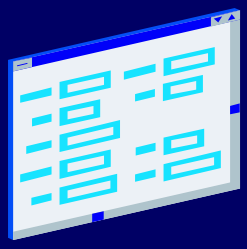
Search Results

View search results in the Item Search window.

- Item
- Description
- Organization
- UOM



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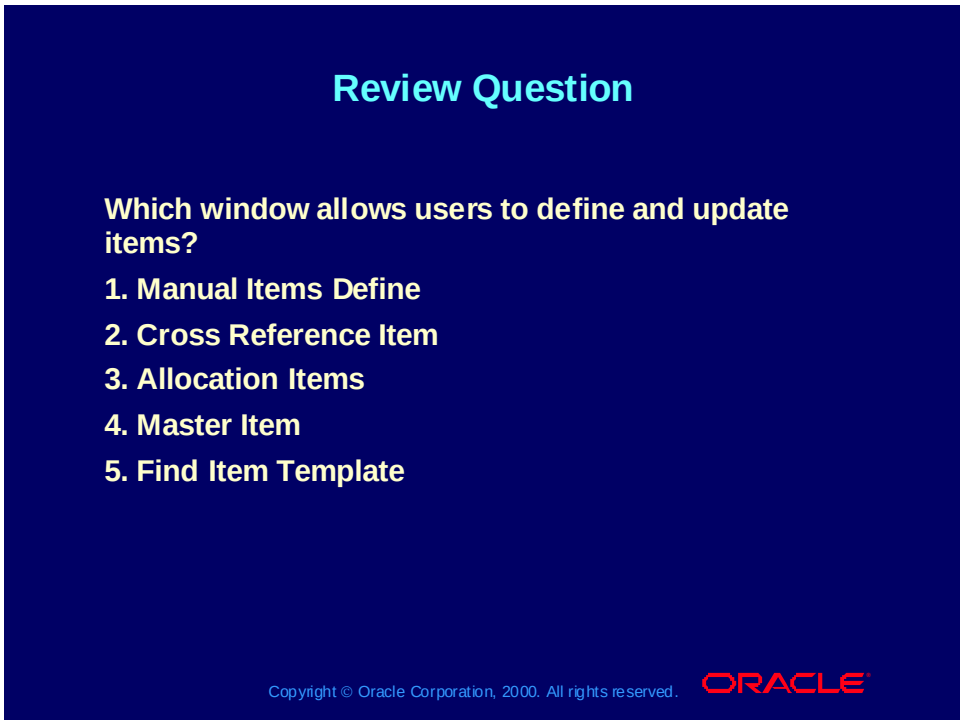

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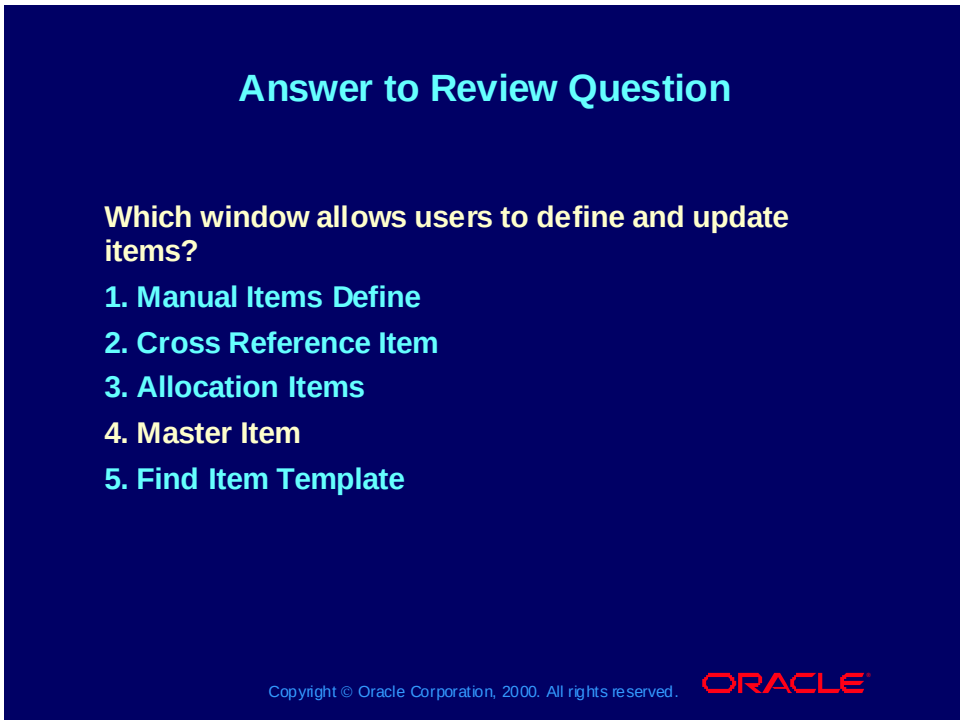

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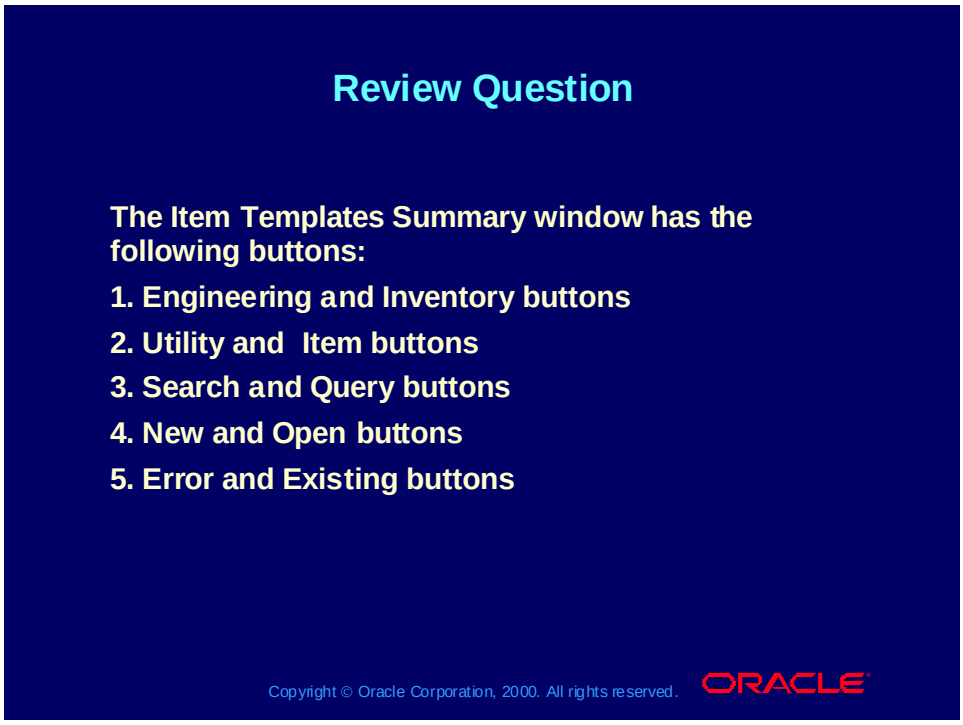

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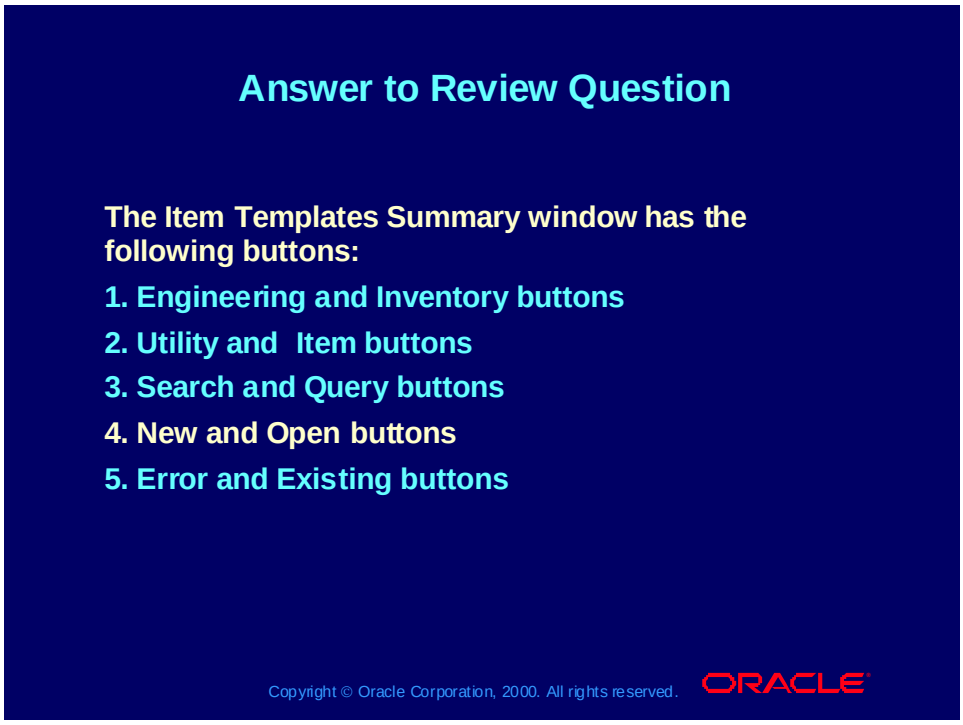

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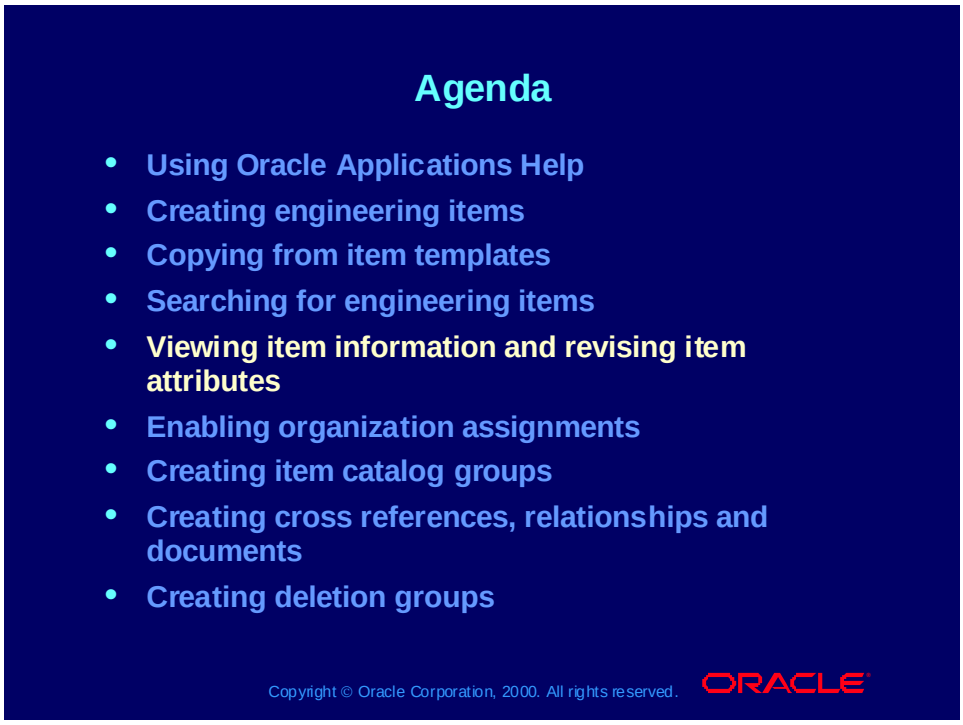

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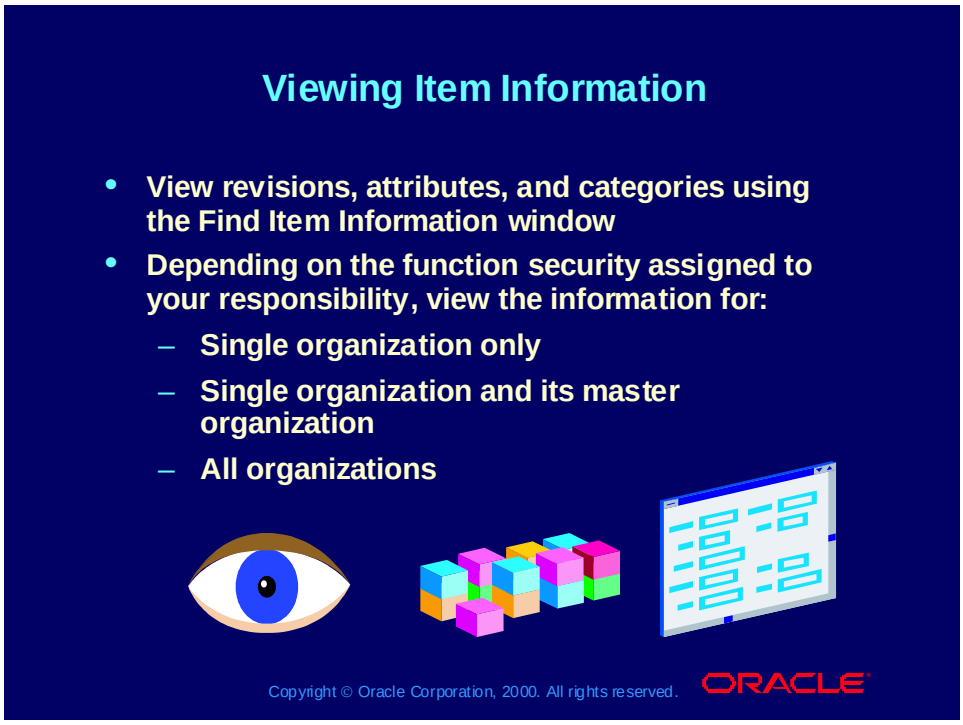

(N) Prototypes > Items > View Item Details

(Help) Oracle Inventory > Items > Viewing Item Attributes

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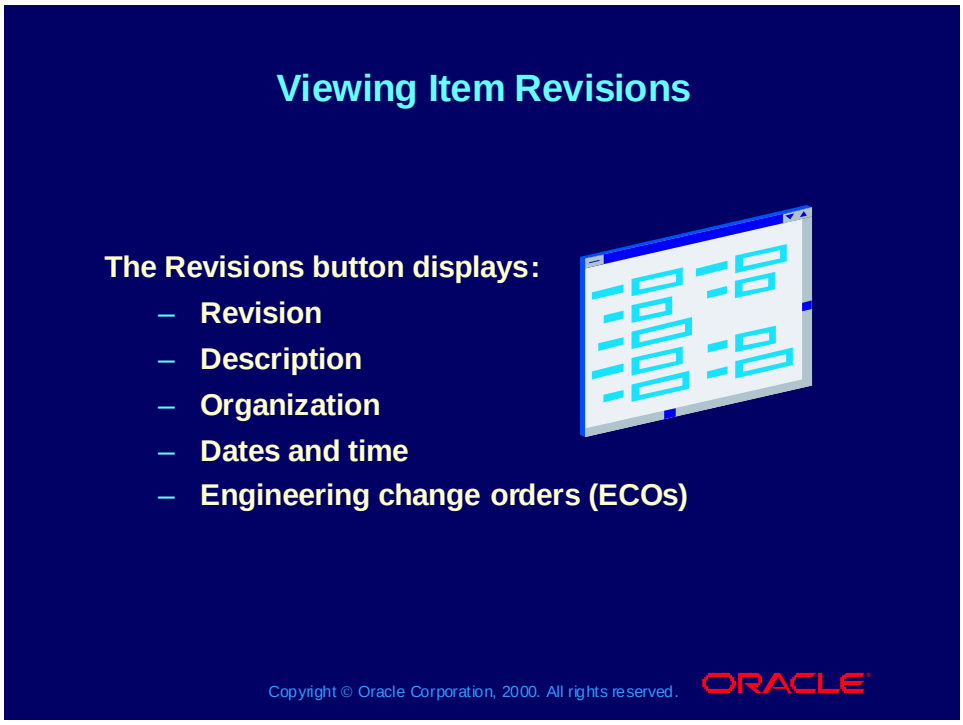
Viewing Item Revisions



(N) Prototypes > Items > View Item Details (B) Revisions

(Help) Oracle Inventory > Items > Viewing Item Attributes

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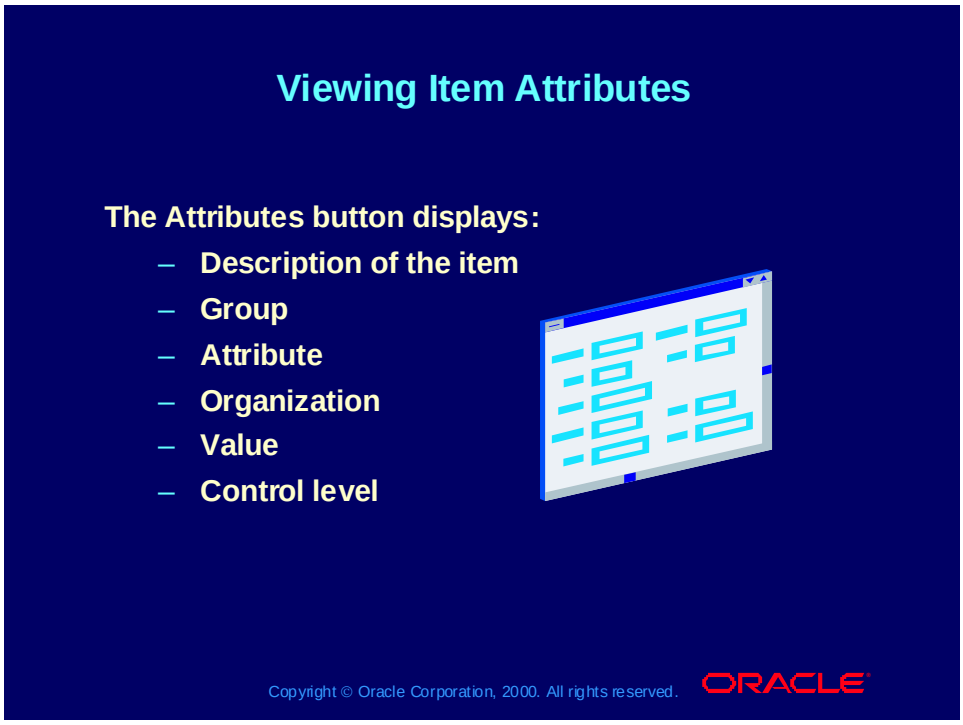
Viewing Item Attributes



(N) Prototypes > Items > View Item Details (B) Attributes

(Help) Oracle Inventory > Items > Viewing Item Attributes

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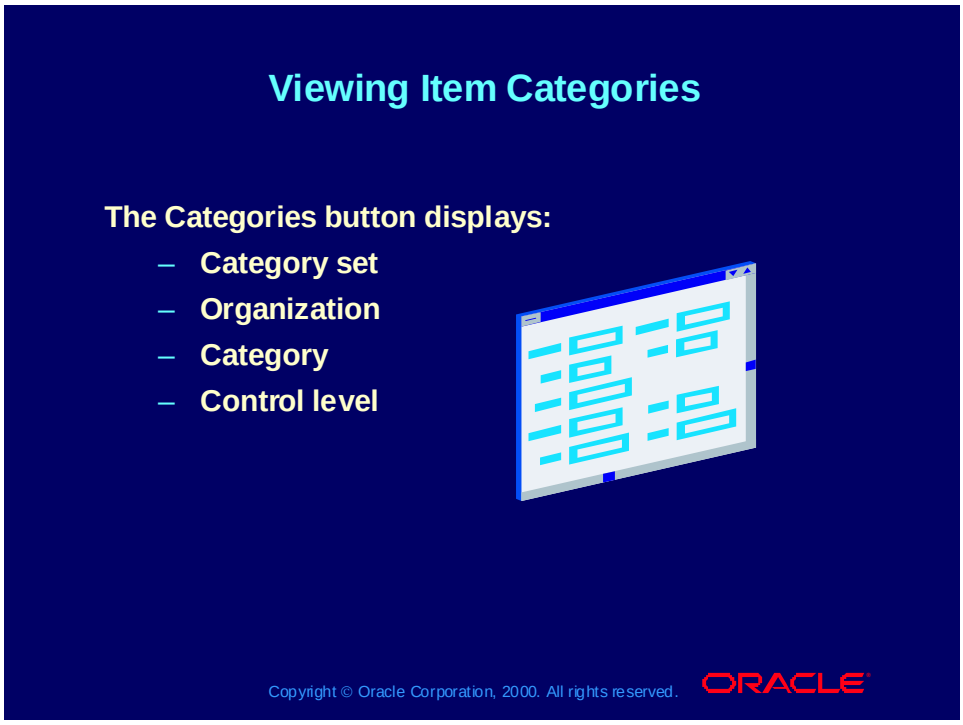
Viewing Item Categories



(N) Prototypes > Items > View Item Details (B) Categories

(Help) Oracle Inventory > Items > Viewing Item Attributes

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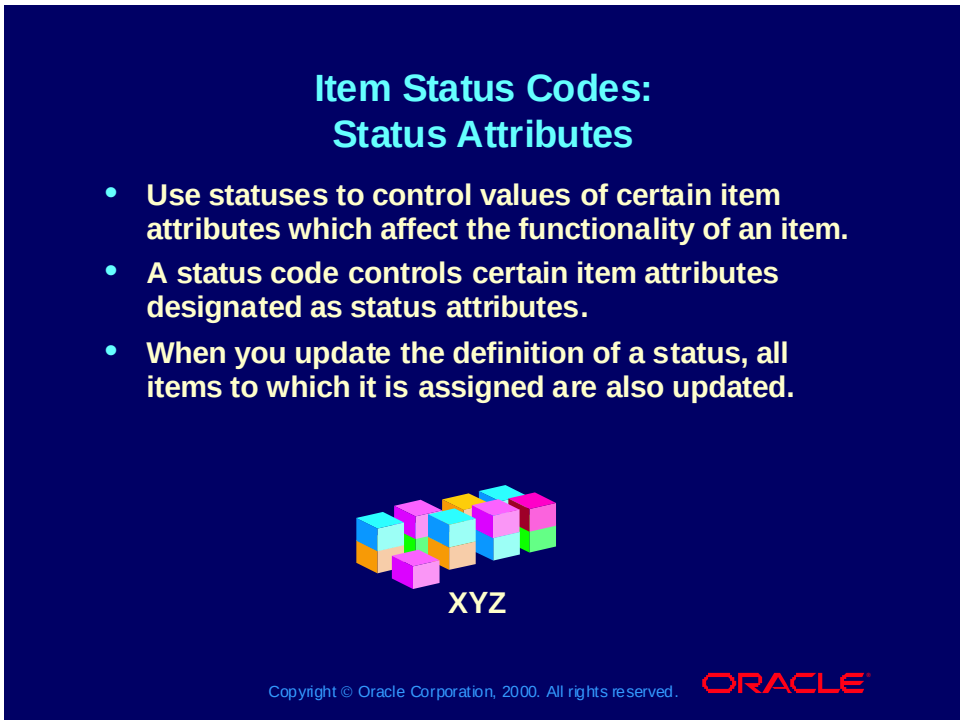
Item Status Codes: Status Attributes



Item Status and Status Codes

An Item Status Code has a user-defined set of Yes/No values for the status attributes. The values are applied to the status attributes when you choose an Item Status Code when defining an item. For example, assume you define an Item Status named Prototype with all status attributes set to Yes except for Customer Orders Enabled. Next, you define another Item Status, Active, with all status attributes set to Yes. In the beginning of a product development cycle, assign the status code Prototype to an item so that you cannot place the item on a sales order. Later, assign the status code Active to allow all functions for the item.

Pending Statuses

Use pending statuses to automatically update an item's status on a specified date. For each item, specify a list of pending statuses and the corresponding effective dates.

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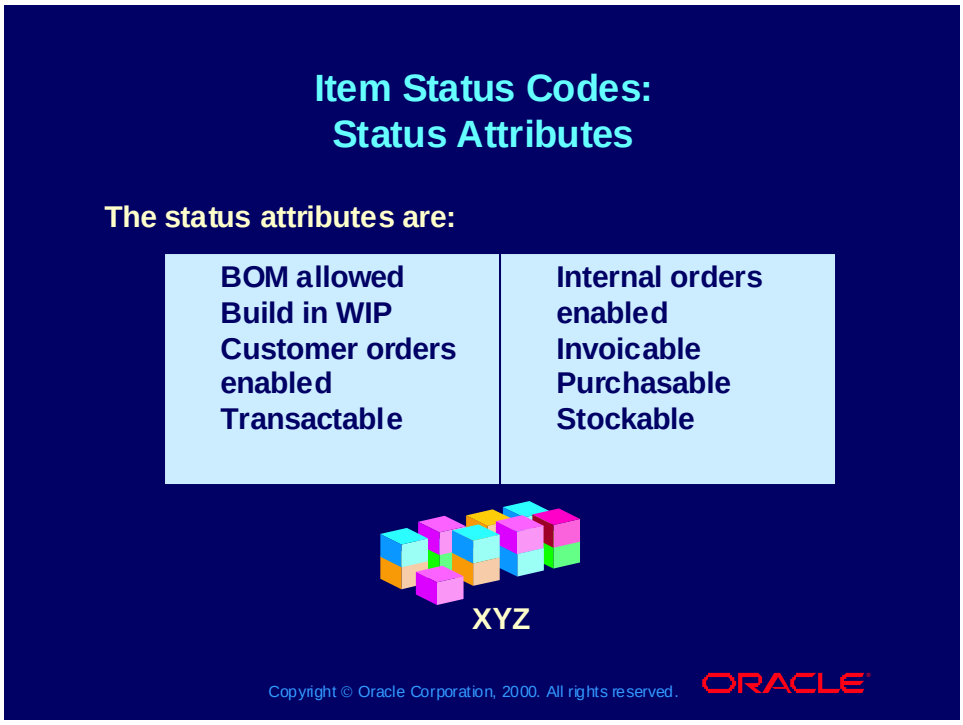
Item Status Codes: Status Attributes



Change Responsibility: (N) Oracle Inventory > Setup > Items > Status Codes

(Help) Oracle Inventory > Setting Up > Item Setup and Control > Defining Item Status Codes

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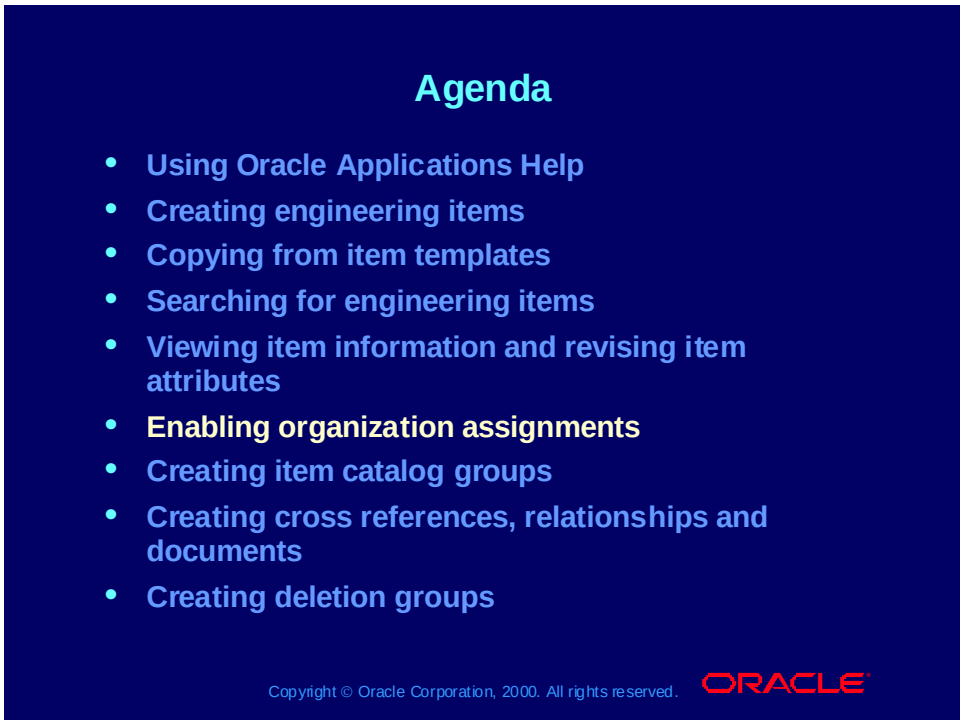

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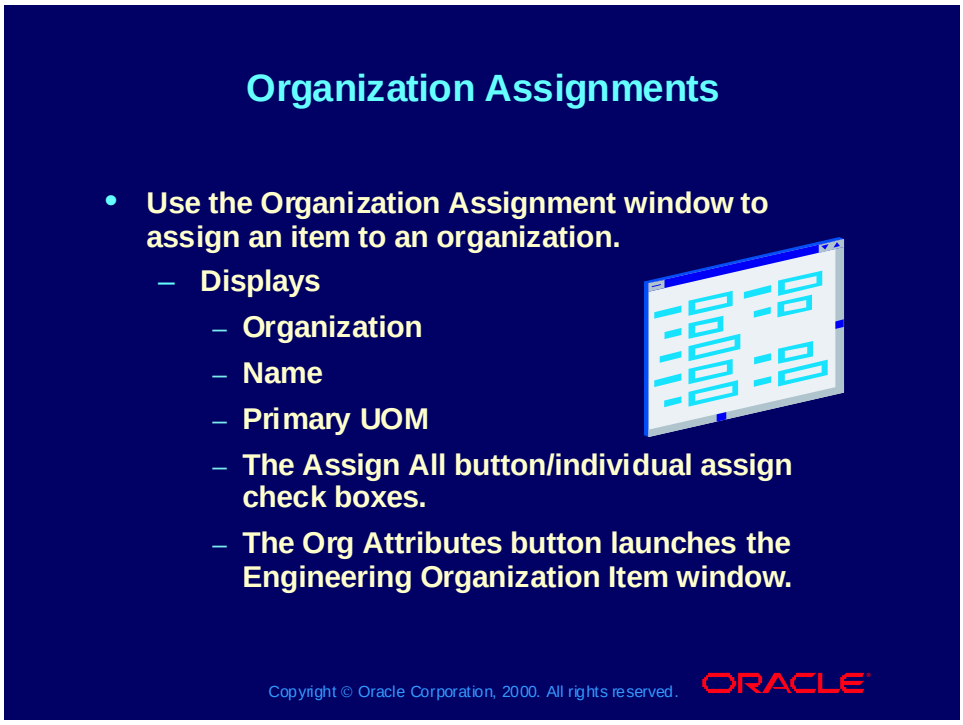

Enabling Organization Assignments

Use this window to enable engineering items and inventory items in organizations in the same way that you use the corresponding Oracle Inventory window to enable production items in organizations. It is not recommended to check Assign All. There are many times items should not be assigned to an organization, especially an engineering item.

(N) Prototypes > Items > Master Item (M) Tools > Organization Assignment (B) Assign All

(Help) Oracle Inventory > Items > Assigning Items to Organizations

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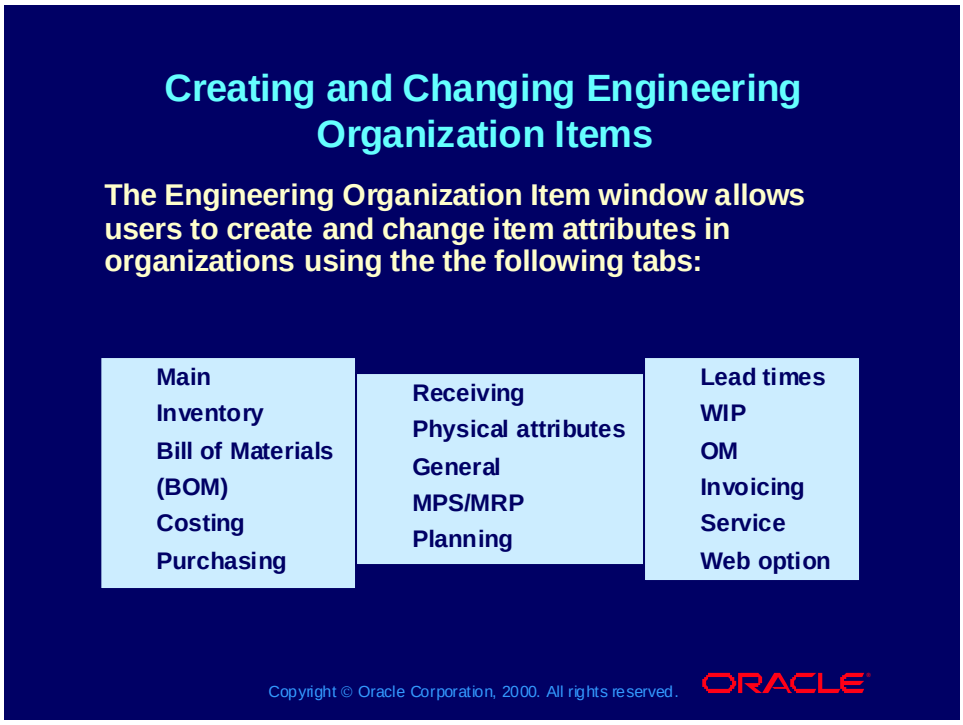

Creating and Changing Engineering Organization Items

Use this window to create and change item attributes in organizations in the same way that you use the corresponding Oracle Inventory window to create and change production item attributes in organizations.

(N) Prototypes > Items > Master Item (M) Tools > Organization Assignment (B) Org Attributes

(Help) Oracle Inventory > Items > Assigning Items to Organizations

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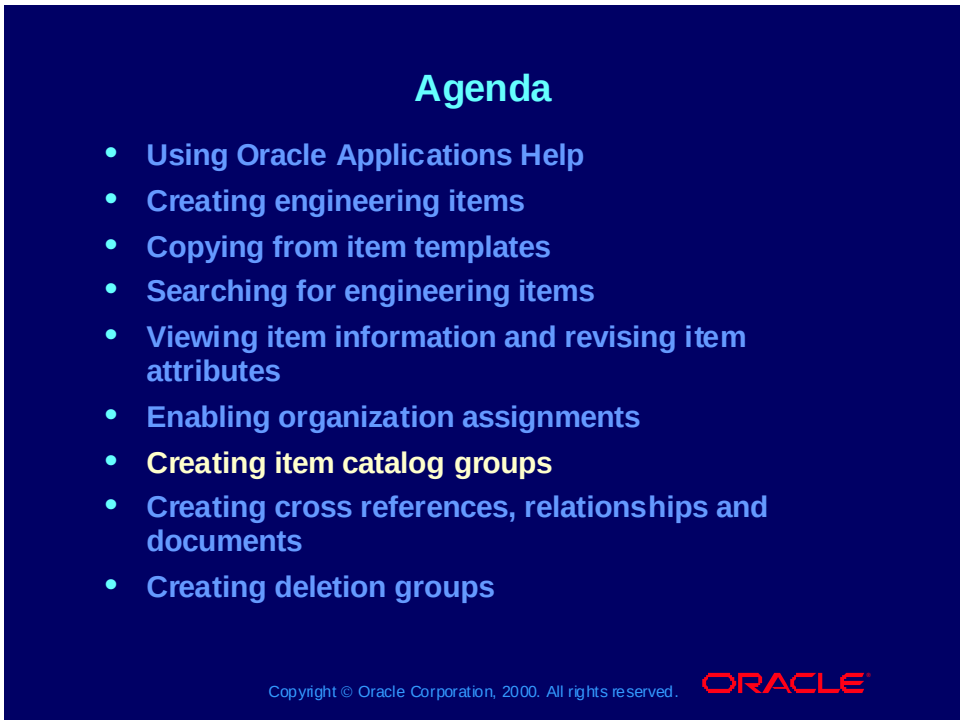

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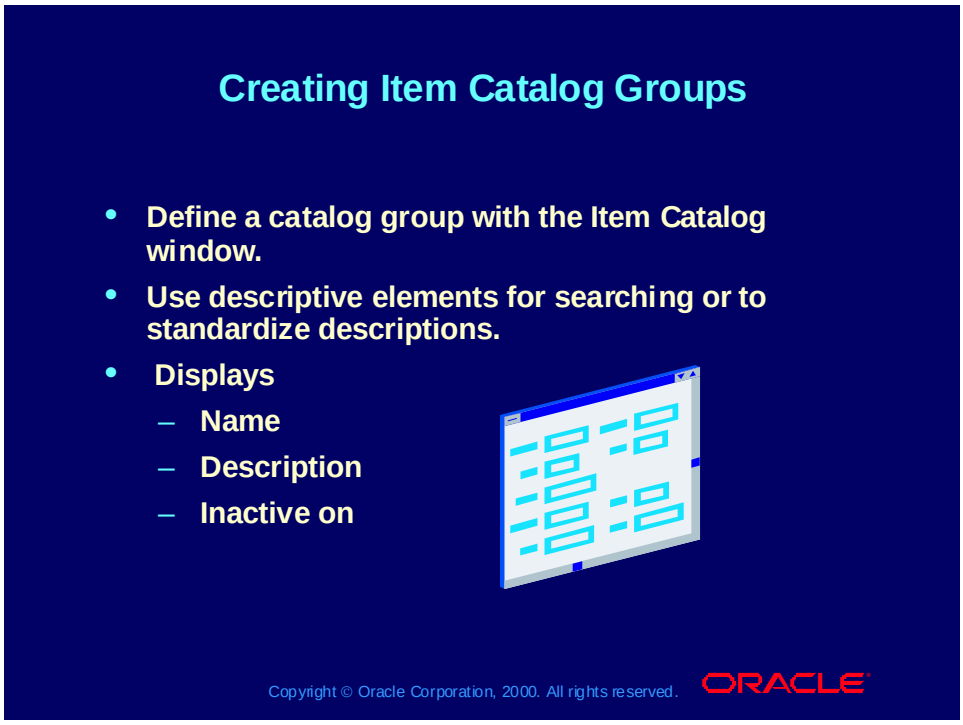

Creating Item Catalog Groups

Use the same item catalog groups in Oracle Engineering to work with engineering items that you use in Oracle Inventory to work with production items.

(N) Prototypes > Items > Catalog Groups

(Help) Oracle Inventory > Setting Up > Item Setup and Control > Item Cataloging > Defining Item Catalog Groups

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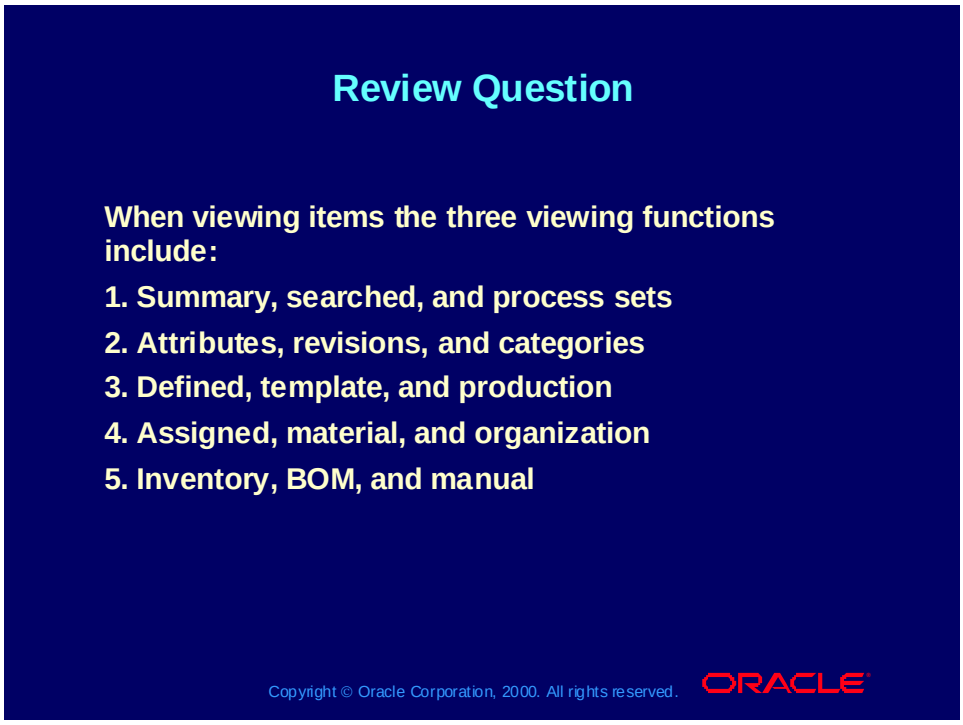

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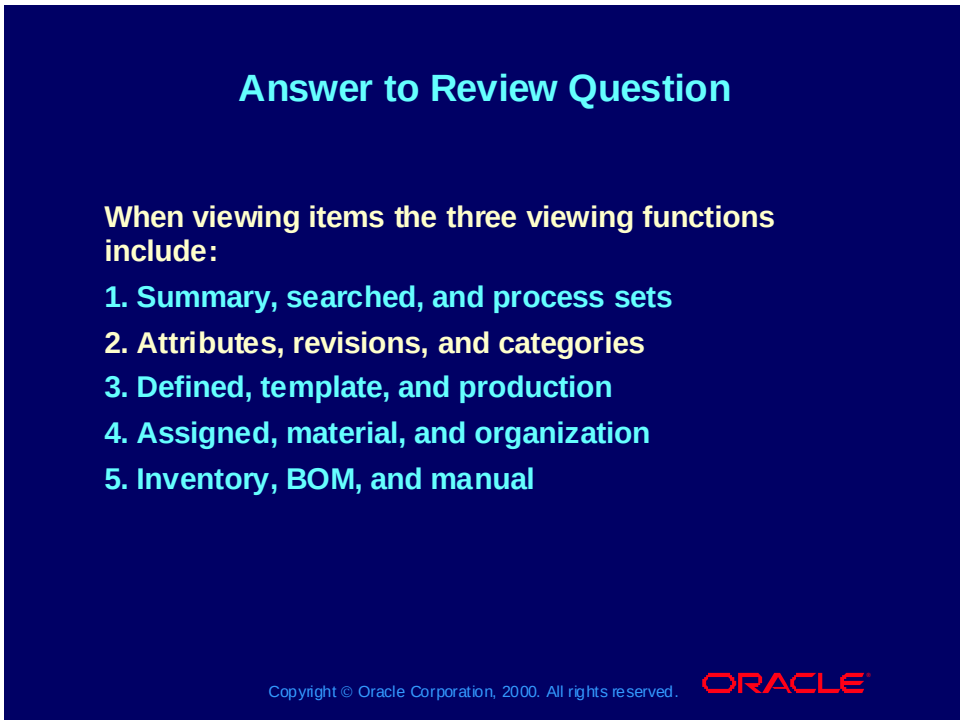

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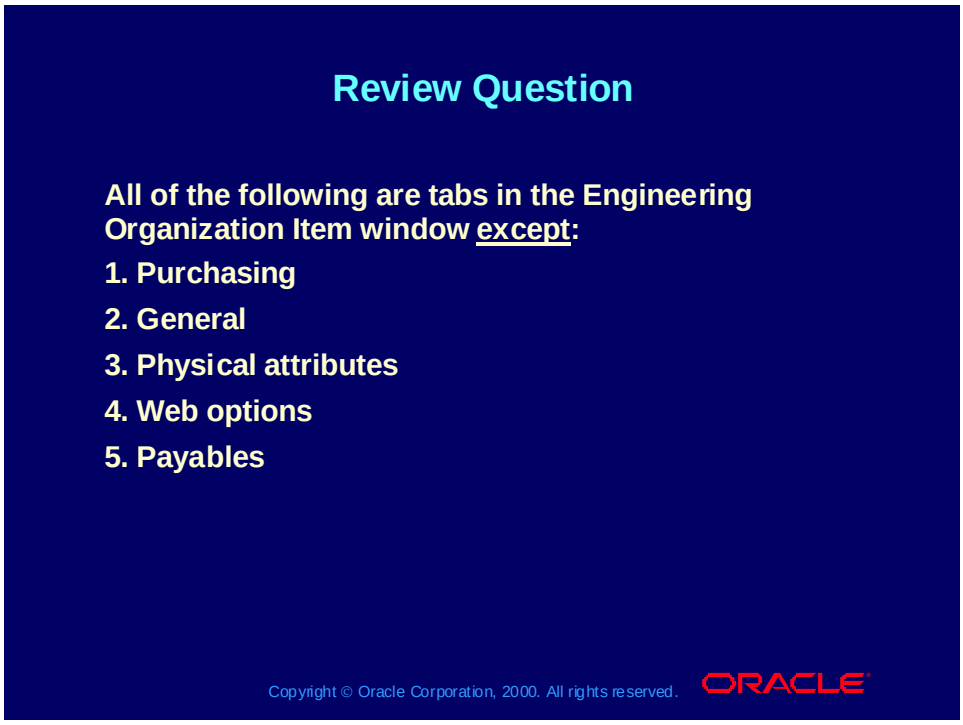

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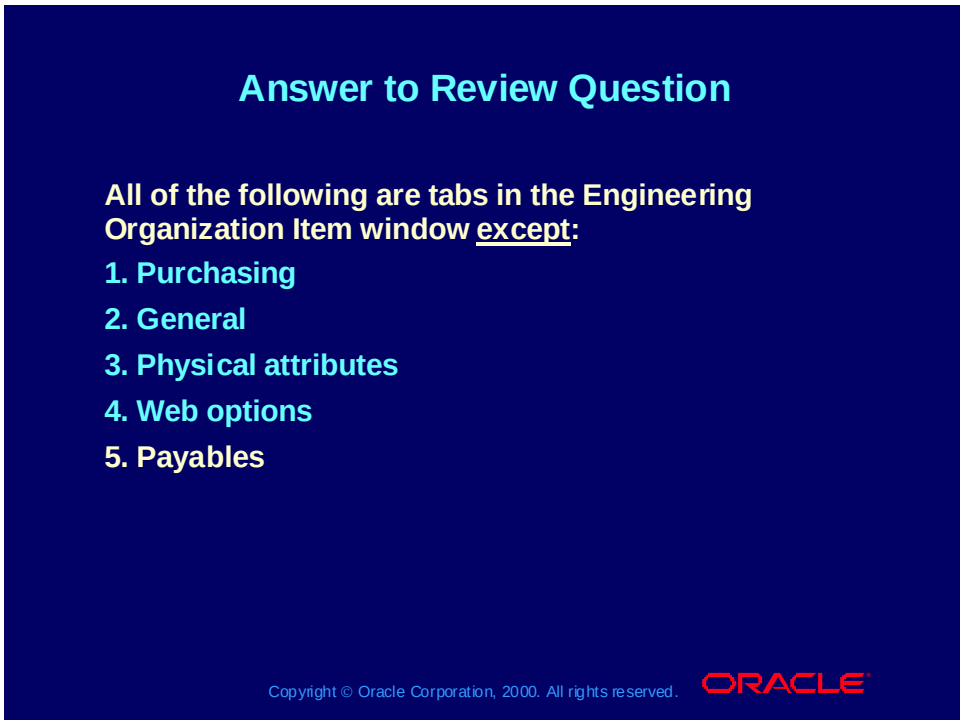

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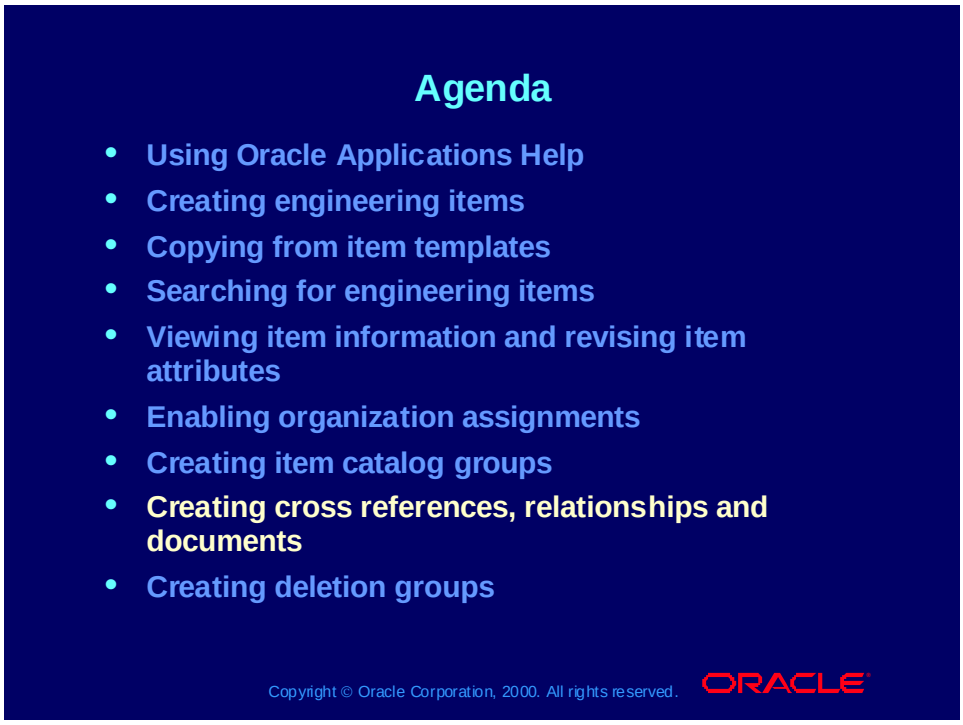

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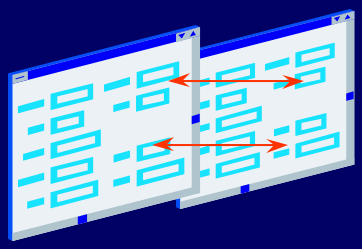
Creating Cross References

- Cross-reference types define relationships between items and entities such as old item numbers or supplier item numbers.
- For example, you can create a cross-reference type old to track the old item numbers, and a type supplier to track supplier part numbers.



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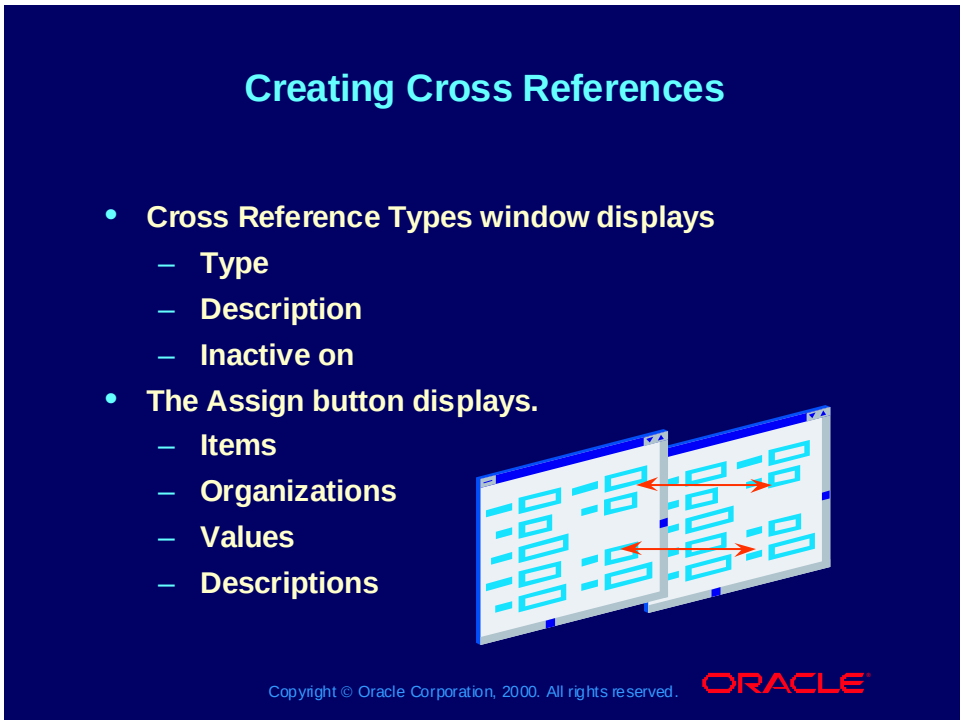

(N) Prototypes > Items > Cross References

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Related Items

(N) Prototypes > Items > Related Items

(Help) Oracle Inventory > Items > Defining Item Relationships

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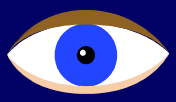
Item Documents

- Use the Documents window to add existing documents, or create new attachments in the document catalog. Use the same corresponding Oracle Inventory window to create and change production items.
- These documents will then be available for use as attachments from the Attachments window.
- Creating a document in the Documents window is much like creating an attachment in the Attachments window with the addition of security, usage, and effective date information.



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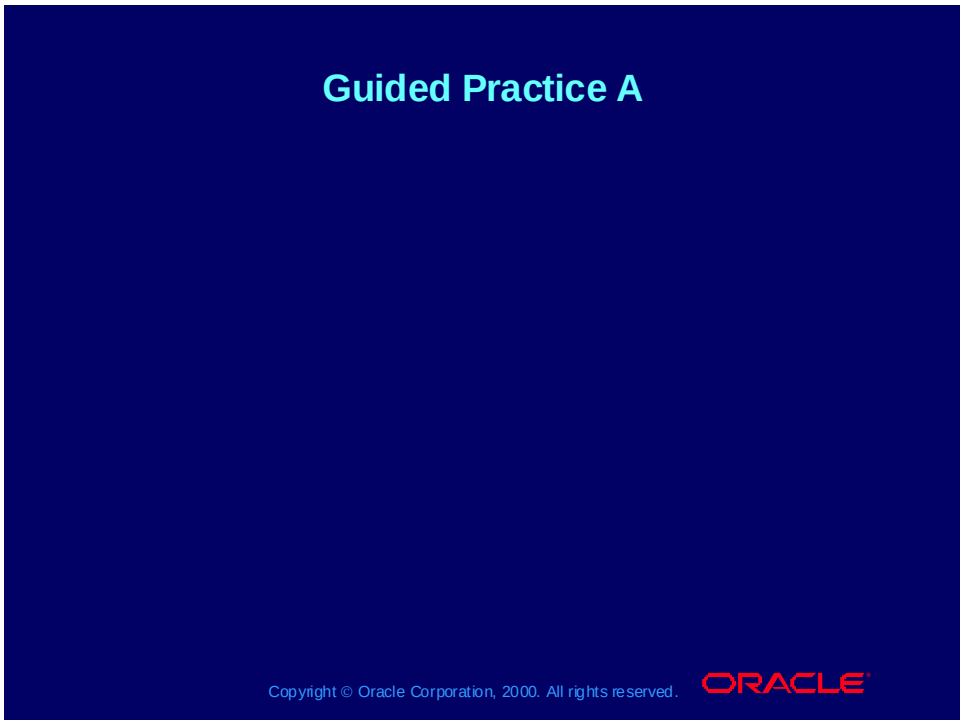

1. Creating Engineering Items

1. Use the following table to create engineering items.
(**N) Prototypes > Items > Master Items** (displays the Engineering Master Item window) Enter the item number, description, and user item type. If a flexfield is displayed click the OK button. XX represents your initials or team. Note the item number may require five numbers after your initials e.g., XX1000 = XX10000.
2. Save the item.
3. Assign the items to an organization that your instructor specifies e.g., M2.
Tools > Org Assignment > e.g., M2 checkbox (displays the Organization Assignment window)
4. Save the item and close the window.
5. Choose the new record icon.

Copied items

1. Enter the item number and description.
2. Copy the item. **Tools > Copy From, enter copy item number (B)**

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Done button (displays the Copy From window).

3. Save the item.
4. Assign the items to an organization (see above navigation path).
5. Save the item.
6. Choose the new record icon.

Item Number	Description	User Item Type	Copied Item
XX1000	Pentium Computer	Finished Good	
XX1010	17" Monitor	Purchased Item	
XX1020	101 Keyboard		XX1010
XX1030	Mouse		XX1010
XX1040	CPU Chassis	Subassembly	
XX2010	Motherboard		XX1040
XX2011	New Motherboard		XX2010
XX2020	Serial Board		XX1010
XX2030	1.6GB Hard Drive		XX1010
XX2040	3.5 Disk Drive		XX1010
XX3010	Blank Board		XX1010
XX3020	586 133mhz IC		XX1010
XX3030	Resistor		XX1010
XX3031	New Resistor		XX3030
XX3040	Integrated Circuit		XX1010
XX3041	Item to Delete		XX1010 (Do not assign an organization for XX3041)

2. Using the Master Items window

1. Query all of your items. Choose view and select query by example, enter.
2. Enter XX% and from the menu bar choose view and select query by example, run.
3. Query all Pentium computers.
4. Query all of your items in the organization that your instructor assigned.

(N) Organization Items, verify that your items are in the assigned organization.

3. Using (N) View item detail, view one or more of your items (displays the Find Item Information window).

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1. Enter your query and choose the Attributes button. What group does the engineering item belong to? What is the value?

4. Try to define your items using an Oracle Inventory responsibility that your instructor assigns. What is the result?

Repeat steps 1-3. Although in step 1 add PR at the end of the numbers to differentiate them from the item numbers in Oracle Engineering e.g., XX1000 = XX1000PR.

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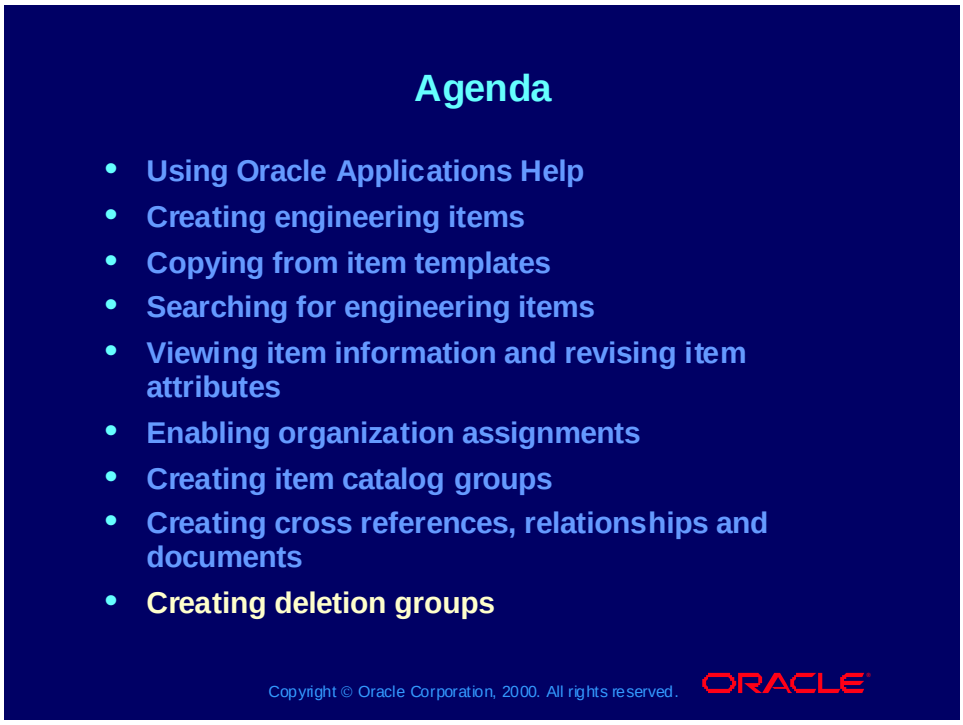

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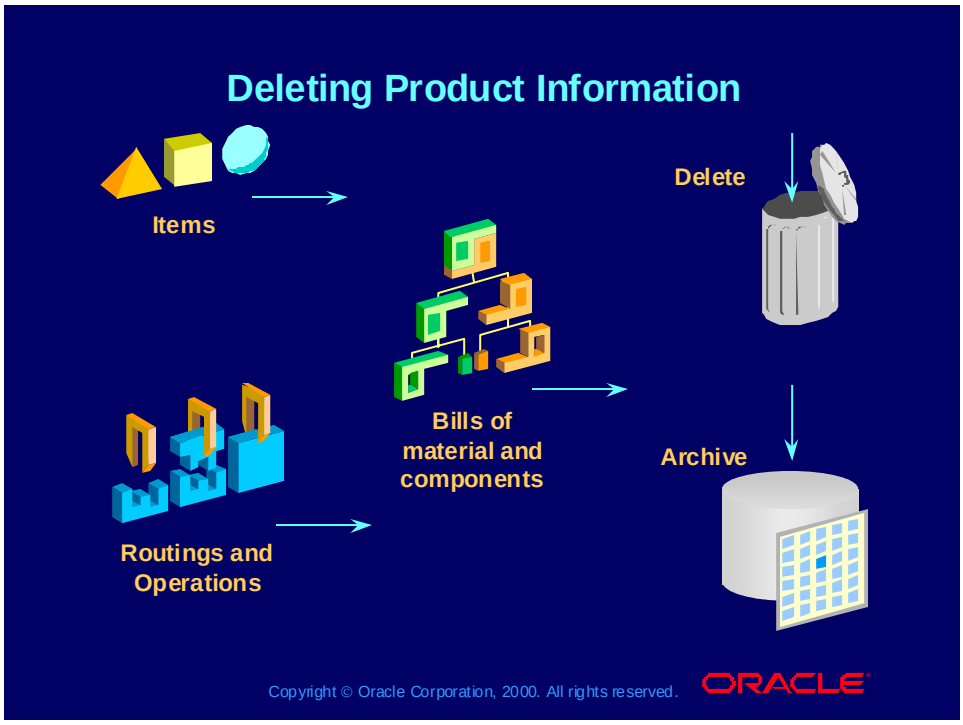

Deletion Groups

When you decide that product information is no longer useful, or input incorrectly, you can delete or archive it.

- If you delete information, you remove it from the active data storage area and you cannot:
  - Manipulate or view it on forms.
  - Retrieve it again by any means.
- If you archive information, you store deleted information in another storage area of the database. Oracle Applications provides no functions for you to:
  - View the archived information.
  - Restore the archived information to the active data storage area.

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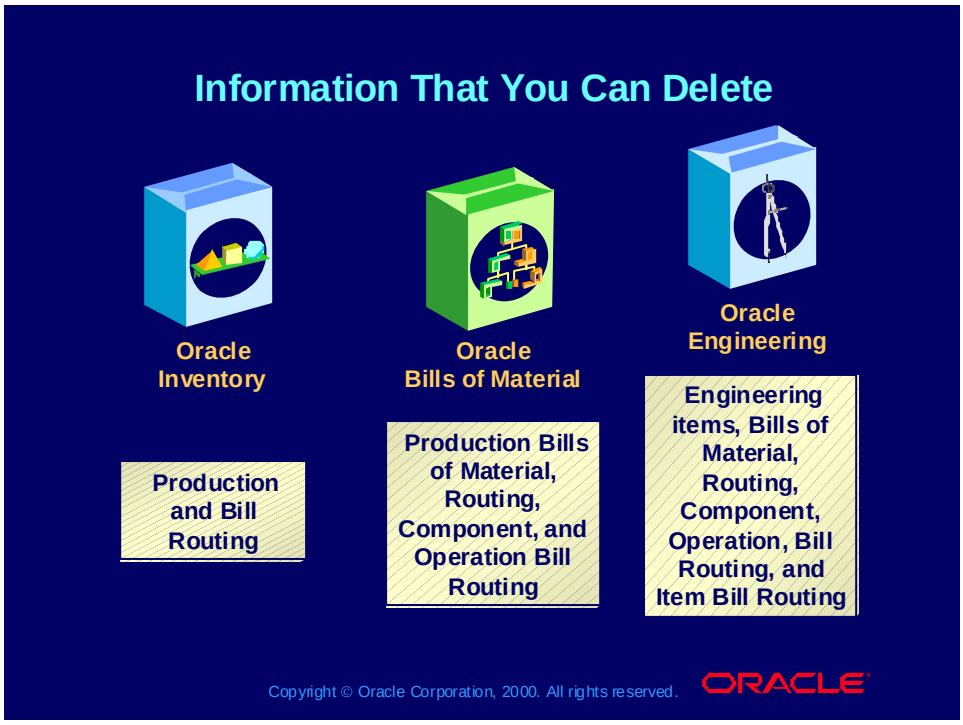

Information That You Can Delete

Set up groups of entities to check, delete and optionally archive. Entities can include items, bills of material, components, routings, or operations.

What entities you can delete depends on what Oracle application you are currently using and what applications you have installed.

- If you are using Oracle Bills of Material, you can delete only bills, routings, components, and operations.
- If you are using Oracle Engineering, you can delete any engineering entity except ECOs.
- If you are using Oracle Inventory and you do not have Bills of Material installed, you can only delete manufacturing items.
- If you are using Inventory and you do have Bills of Material installed, you can delete only items, bills, and routings.

Using Oracle Engineering, you can delete all of the information types that you can delete using Oracle Inventory and BOM, but for engineering data only. In addition, you can delete engineering change order information.

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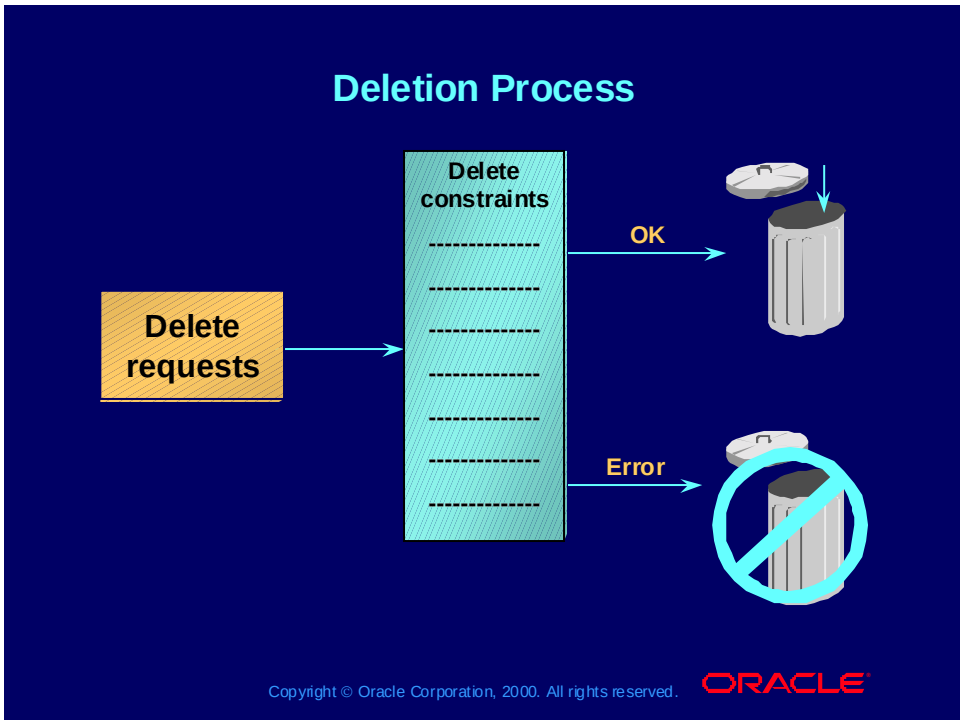
Deletion Process



Deletion Process

Deleting physically removes information from the database tables. Deleted bill or routing information can be archived to database tables. (You cannot archive item-level information.) You can then write custom programs to report on the archived data. Summary information is saved for all deletion groups. You can report on deletion groups.

Several deletion constraints are installed with BOM. However, you can define custom deletion constraints. If what you are attempting to delete does not pass deletion constraints, it is not deleted. For example, you can define a constraint that prevents you from deleting a bill of material for an assembly that has an item status of active.

When you delete an entire bill, you delete all the components for the assembly along with their reference designators and substitute items. When you delete a routing, all operations are deleted. For both bills and routings, any links to attachments are severed.

Oracle Work in Process reflects any changes to the bills or routings using the delete functionality only if you re-explode the bill or routing in Work in Process.

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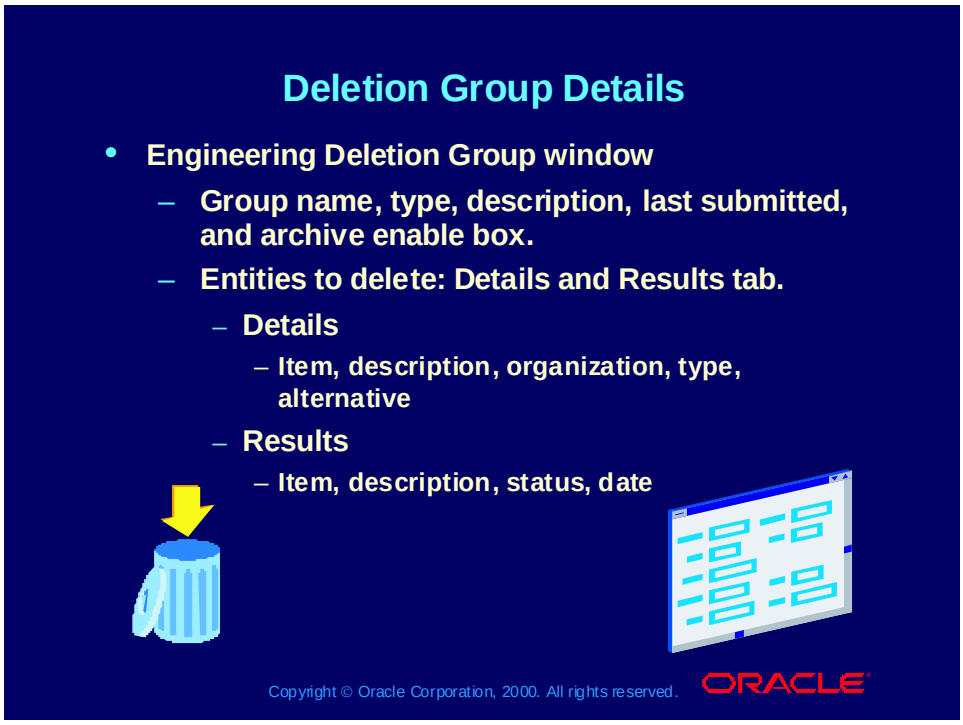
Deletion Group Details



(N) Prototypes > Items > Delete Groups

(Help) Oracle Bills of Material > > Bills of Material > Deleting Items

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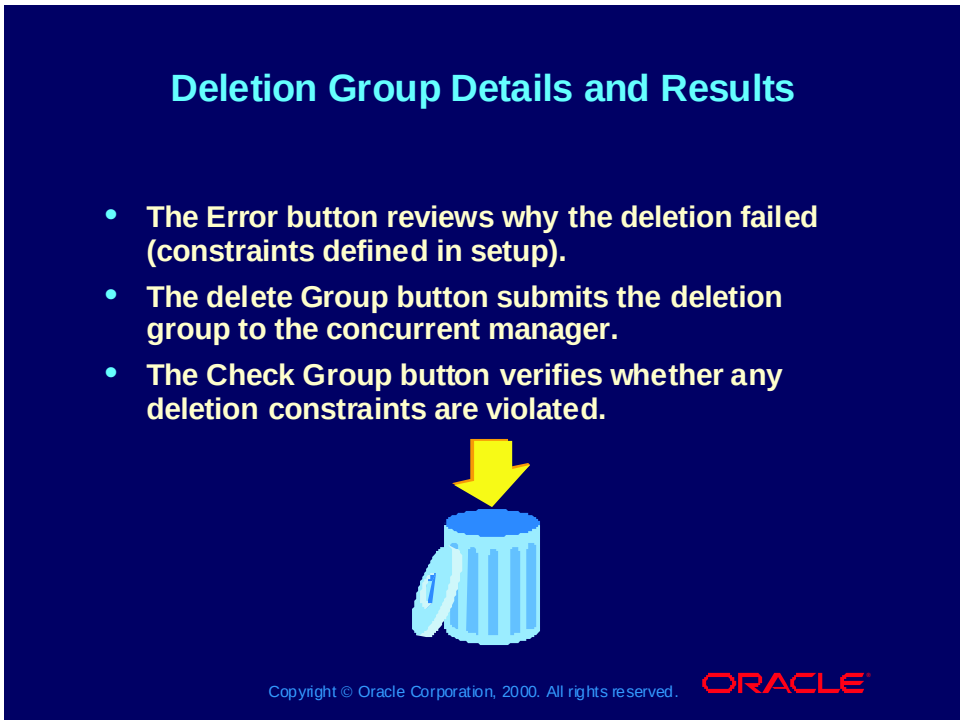
Deletion Group Details and Results



Errors

Change Responsibility: (N) Oracle BOM > Delete Groups (B) Errors

(Help) Oracle Bills of Material > Reports and Processes > Delete Items Report

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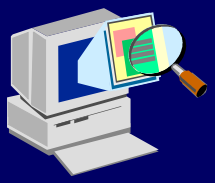
For Reviewing History and Purging ECOs

How?

- **By submitting a request to view information about deletion groups.**
  - **Selecting the request or request set to be submitted.**
  - **Defining a submission schedule**
  - **Providing completion options**



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Change Responsibility: (N) Oracle Bills of Material > Reports > Delete Groups

In Engineering: (N) ECOs > Delete

(Help) Oracle Bills of Material > Reports and Processes > Delete Items Report

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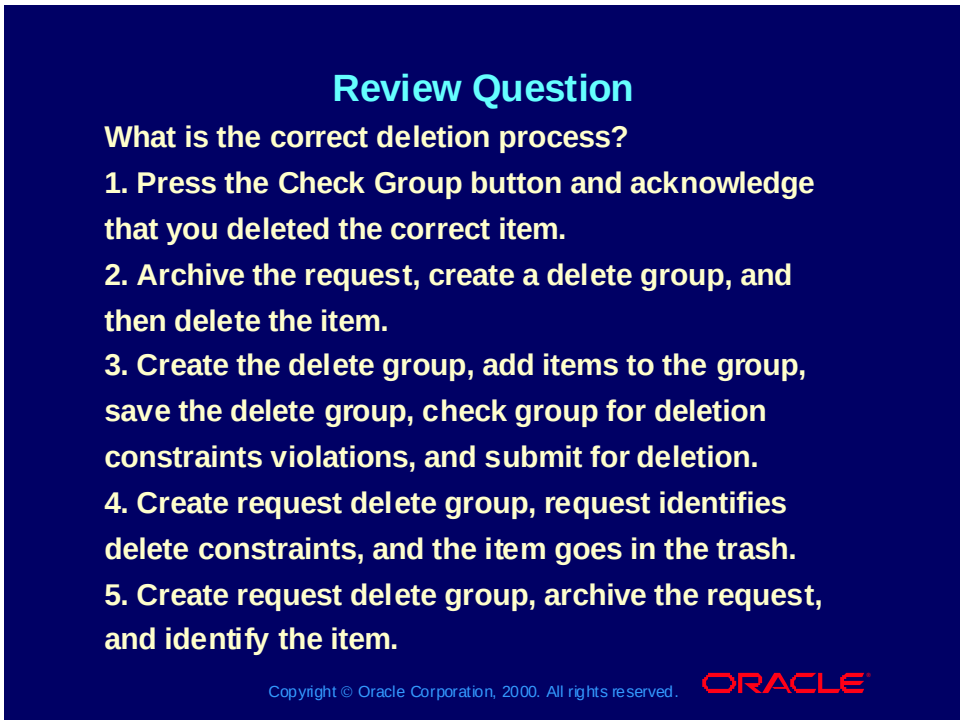

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Answer to Review Question

What is the correct deletion process?

1. Press the Check Group button and acknowledge that you deleted the correct item.
2. Archive the request, create a delete group, and then delete the item.
3. Create the delete group, add items to the group, save the delete group, check group for deletion constraints violations, and submit for deletion.
4. Create request delete group, request identifies delete constraints, and the item goes in the trash.
5. Create request delete group, archive the request, and identify the item.

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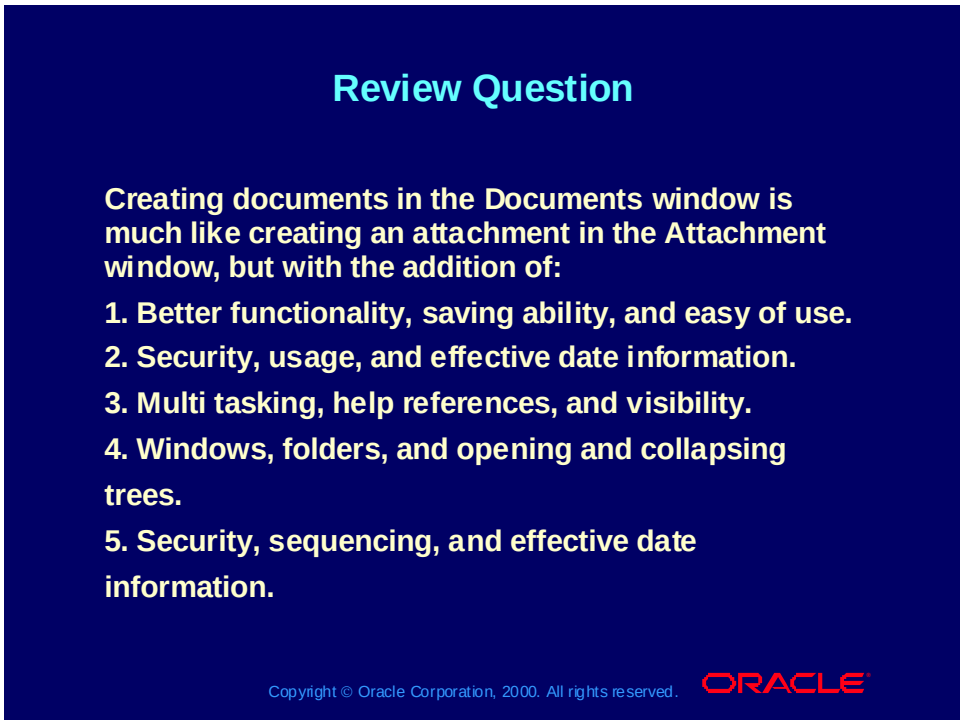

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Answer to Review Question

Creating documents in the Documents window is much like creating an attachment in the Attachment window, but with the addition of:

1. Better functionality, saving ability, and easy of use.
2. Security, usage, and effective date information.
3. Multi tasking, help references, and visibility.
4. Windows, folders, and opening and collapsing trees.
5. Security, sequencing, and effective date information.

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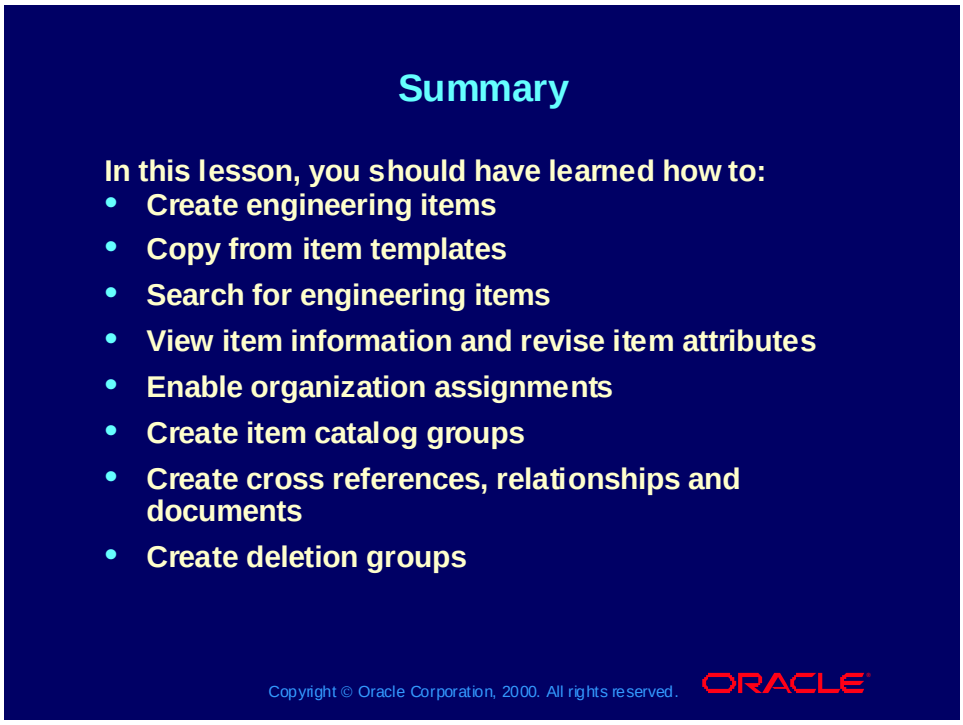

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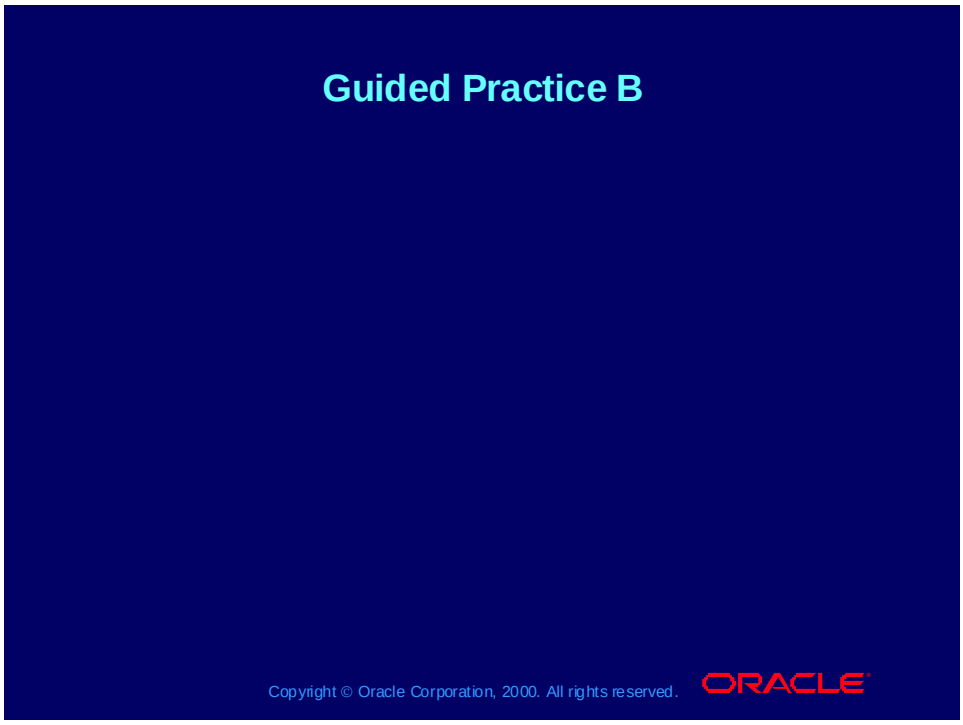

1. Create a deletion group component XX3010 from subassembly XX2010 (N) Prototypes > Delete Group

1. Enter XXDELETE as the group.
2. Enter XXDELETE group as the description.
3. Select item as the type.
4. Select XX3041 as the item from the LOV.
5. The description, organization and type will default.
7. Choose the disk icon to save.

2. Check the delete group for constraint violations (seeded or user defined) (N) Prototypes > Delete Group (B) Check Group button

1. Record request number.
2. From the menu bar choose view and select requests.
3. Choose the Find button (verify that the request is completed normal) close window.
4. Re-query your deletion group.
5. Choose the Results tab and verify that the status is OK.

3. Perform the deletion (N) Prototypes > Delete Group (B) Delete Group button

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1. Record request number.
2. From the menu bar choose view and select requests.
3. Choose the Find button (verify that the request is completed normal) close window.
4. In the Master Item window re-query your item and verify that it was deleted.

4. Try deleting another item that you created. Was there any deletion constraints?

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