11*i* Oracle Process Manufacturing Quality Management

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 navigating Oracle applications
- Working experience with production processes

Prerequisites

- There are no prerequisites for this course.

How This Course Is Organized

11i Oracle Process Manufacturing Quality Management 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 Process Manufacturing Quality Management User's Guide	*A77220-03*

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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11*i* Oracle Process Manufacturing Quality Management

Chapter 1

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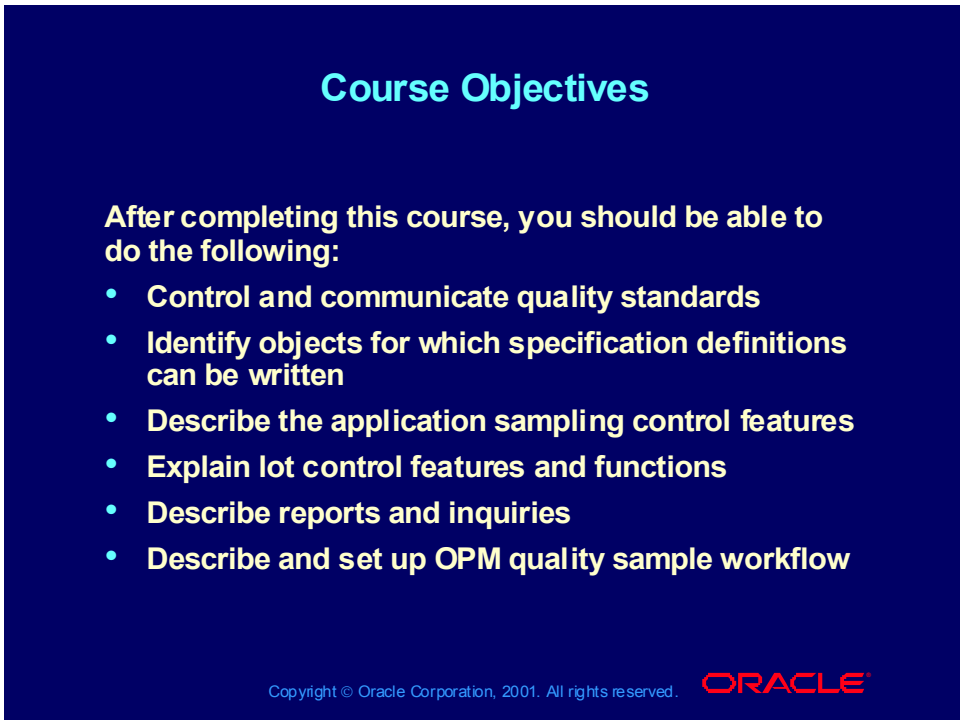

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Agenda

Agenda

- Establishing OPM Quality Parameters
- Managing Quality Control Sampling
- Recording Quality Control Results
- Executing Quality Management Reports and Inquiries
- Describing Quality Sample Workflow

Oracle Process Manufacturing
Quality Management

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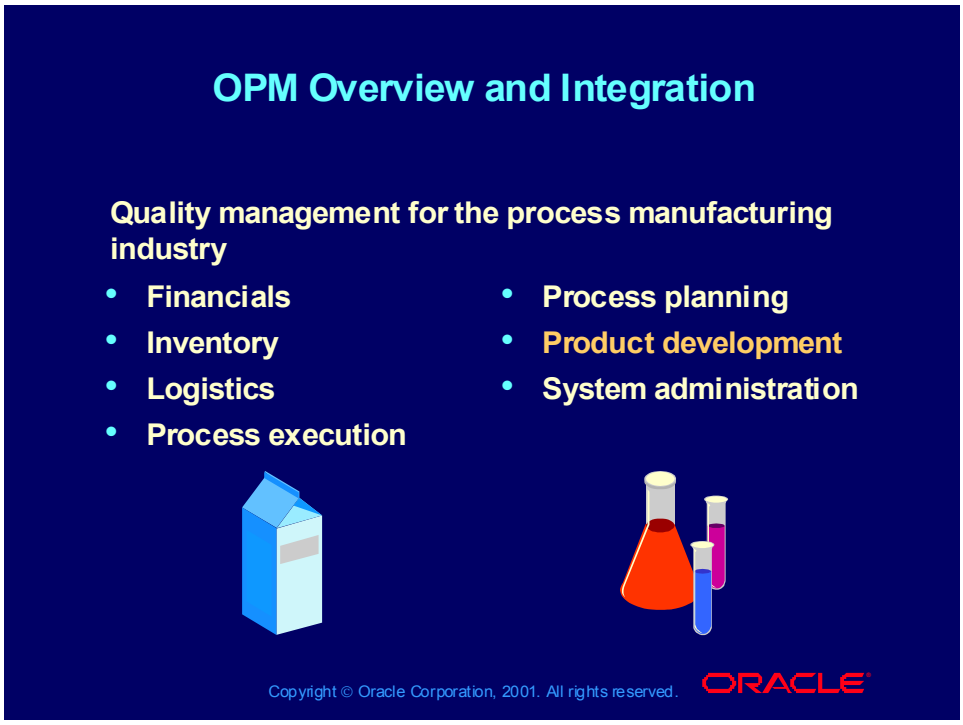

OPM Overview and Integration

The Quality Management and Lab Management modules are components of the Product Development application.

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Quality Demands

Quality tracking begins with raw material procurement and ends with order shipping. For example, you can incorporate required raw material characteristics into purchase orders to inform suppliers of material quality requirements. Upon receipt, raw materials are tested, and the results are measured against specified characteristics.

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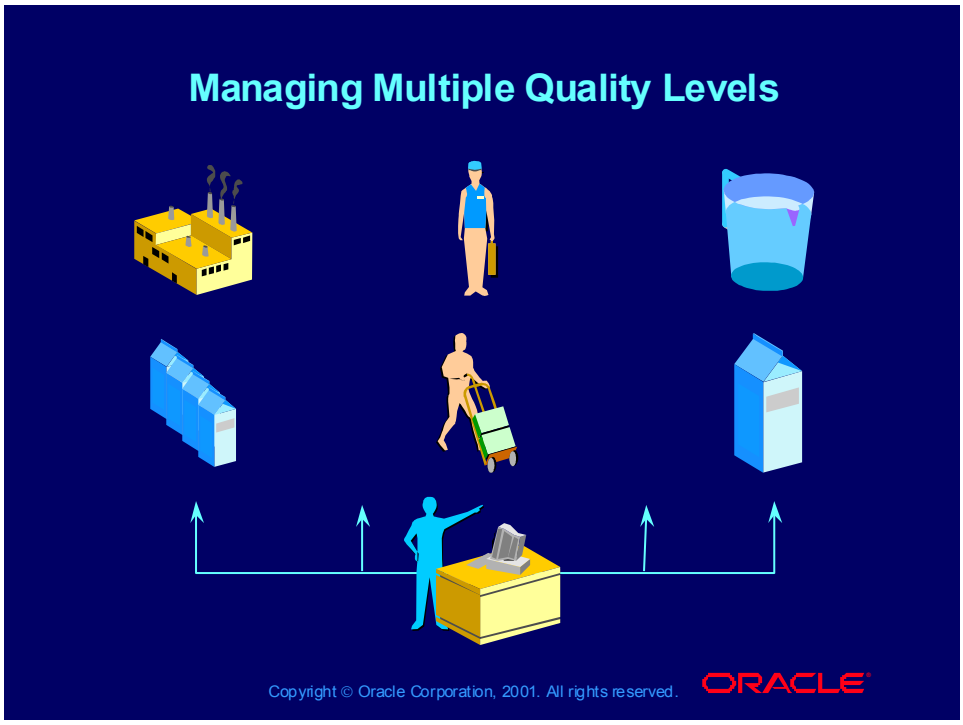

Managing Multiple Quality Levels

The Quality Management module provides total system flexibility, helping you to meet customer quality demands. Quality tracking begins with raw material procurement and ends with order shipping. For example, you can incorporate required raw material characteristics into purchase orders to inform suppliers of material quality requirements. Upon receipt, raw materials are tested, and the results are measured against specified characteristics.

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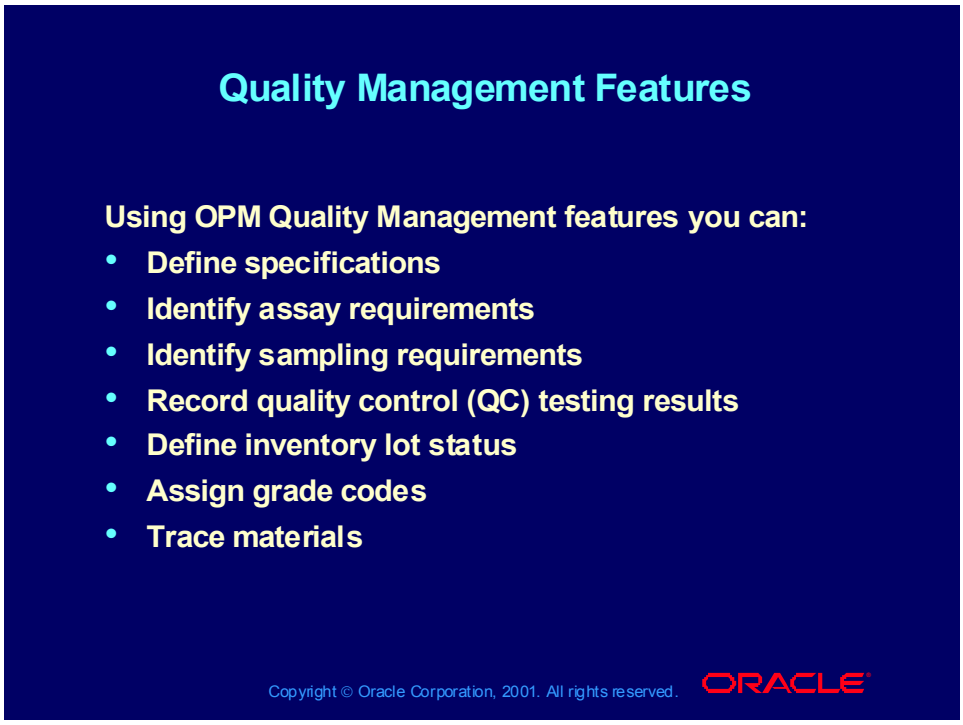

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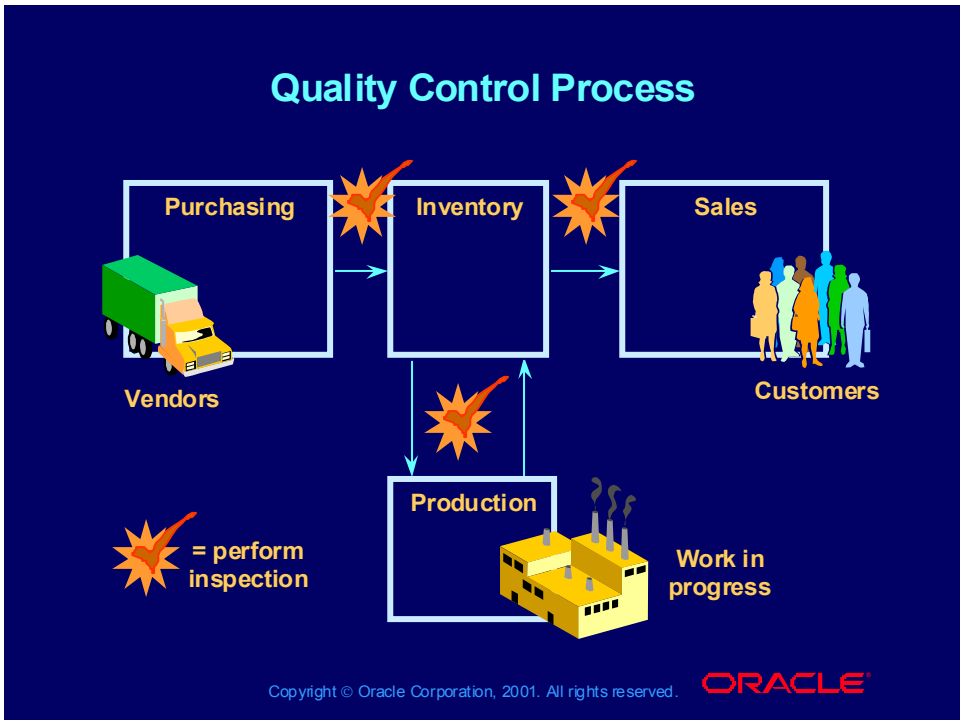

Quality Control Process

Using the OPM Quality Management module, you can monitor quality at all levels of your manufacturing process. You can record inspection results and modify inventory status at the following manufacturing points:

- Purchased stock
- Produced goods
- Goods in inventory for potential sale

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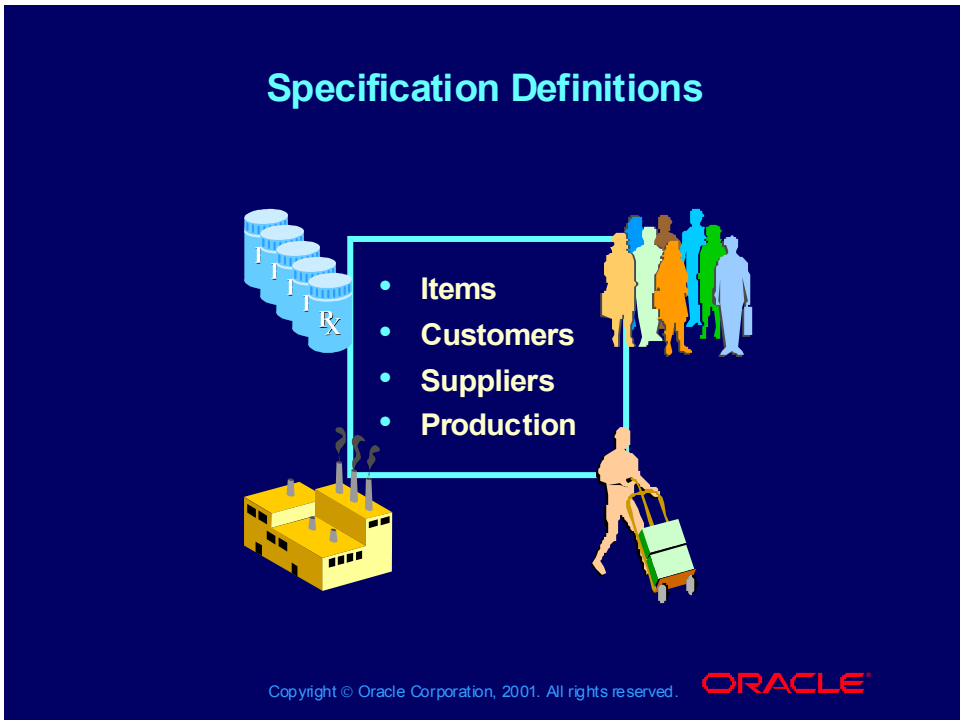

Specification Definitions

Using specification management, you can identify and support quality targets. Assays link together to form quality specifications.

With Quality Management, you can develop specification definitions for:

- Inventory items
- Customer orders
- Supplier goods
- Production batches

For example, you can establish multiple specifications for an item and define the tests to be performed to ensure that the material meets specifications. You can also identify the actions to be taken on material that is “out-of-spec.”

You may want to ask students to give examples from their businesses for which they would develop specification definitions.

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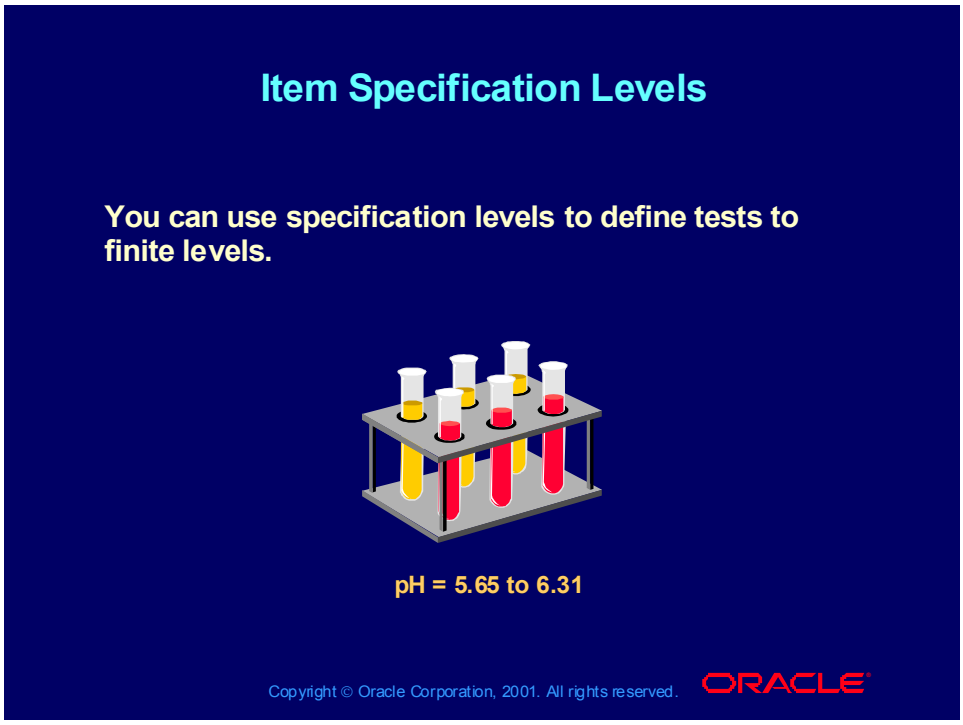

Item Specification Levels

You can use the specification functions to further refine assay information to finite levels.

As an example, a finite level for pH might be 5.65 through 6.31 within a global specification of 1 through 14. You can link action codes to out-of-spec or expired material.

Assay expiration date and preference code entry provide additional flexibility. You can require assay revalidation, such as when new equipment becomes available. You can deactivate manual-type tests by using automatic testing with expiration dates.

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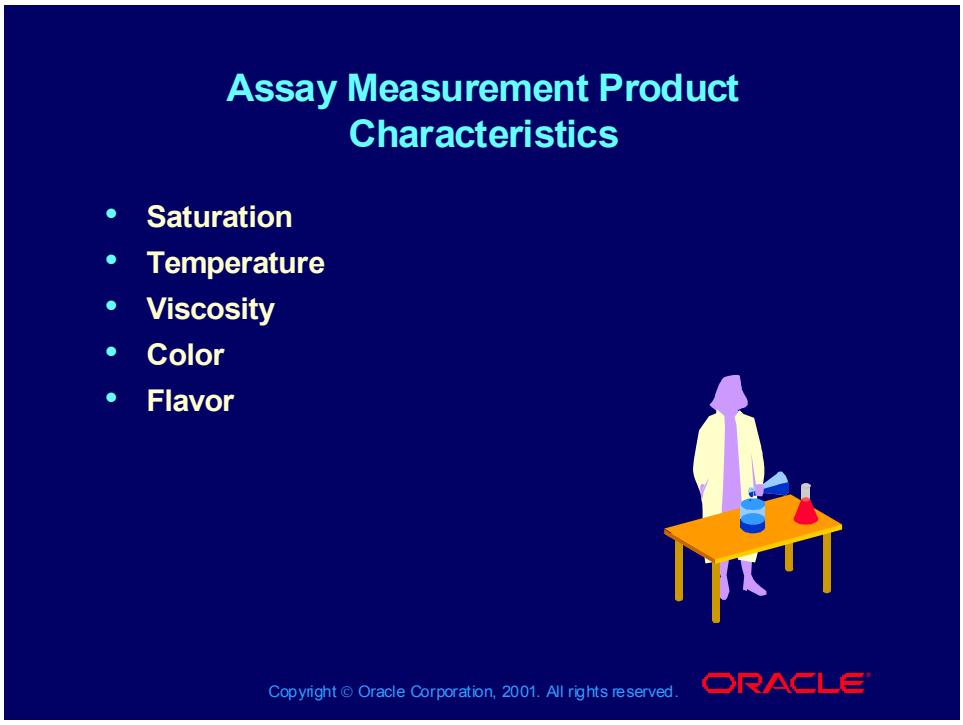

Assay Measurement Product Characteristics

Assays are quality measurements or tests that are the basis for specifications. With the Quality Management module, you can identify the assay requirements needed to measure product characteristics. Assays can encompass characteristics such as saturation, temperature, viscosity, color, or flavor.

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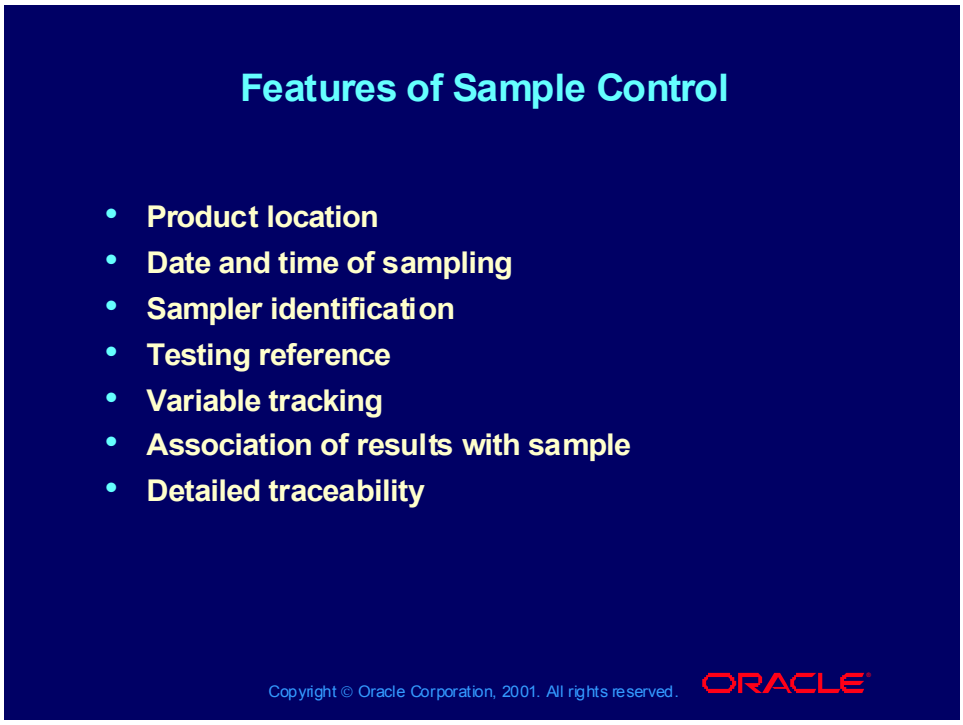

Features of Sample Control

You may frequently need to sample material directly from inventories, suppliers, or production orders. Sampling must include logging critical information about sampled materials, their locations, the dates and times of the samplings, and the sampler identifications. Once a sample is drawn, all testing is referenced to it. Using sample control, you can track the variables associated with each sample.

Additionally, sample control allows testing environments to associate important results with the correct sample accurately, supporting detailed traceability.

You may want to have students identify the different types of quality control (QC) sampling they do in their businesses.

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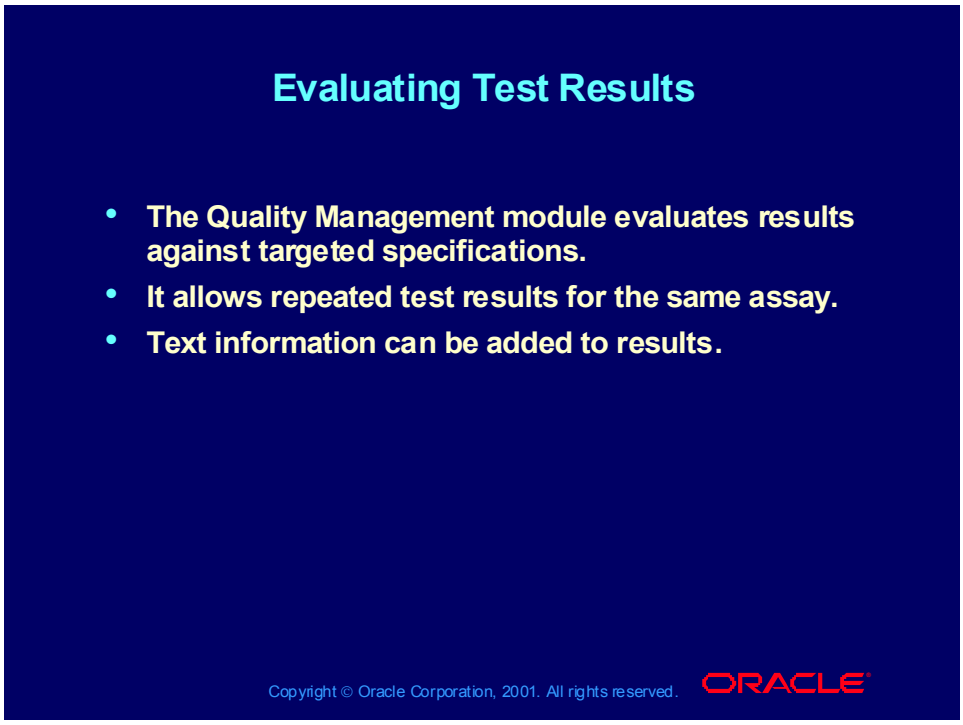

Evaluating Test Results

Results of the QC tests for particular items, suppliers, customers, and production runs serve a variety of uses, such as providing the basis for action to be taken in formulation or other areas.

You enter results referencing the tested sample, and you can log them against previously established specifications. You can also perform ad hoc testing and entering of results. The Quality Management module evaluates results against targeted specifications to determine acceptance or rejection of the sampled material.

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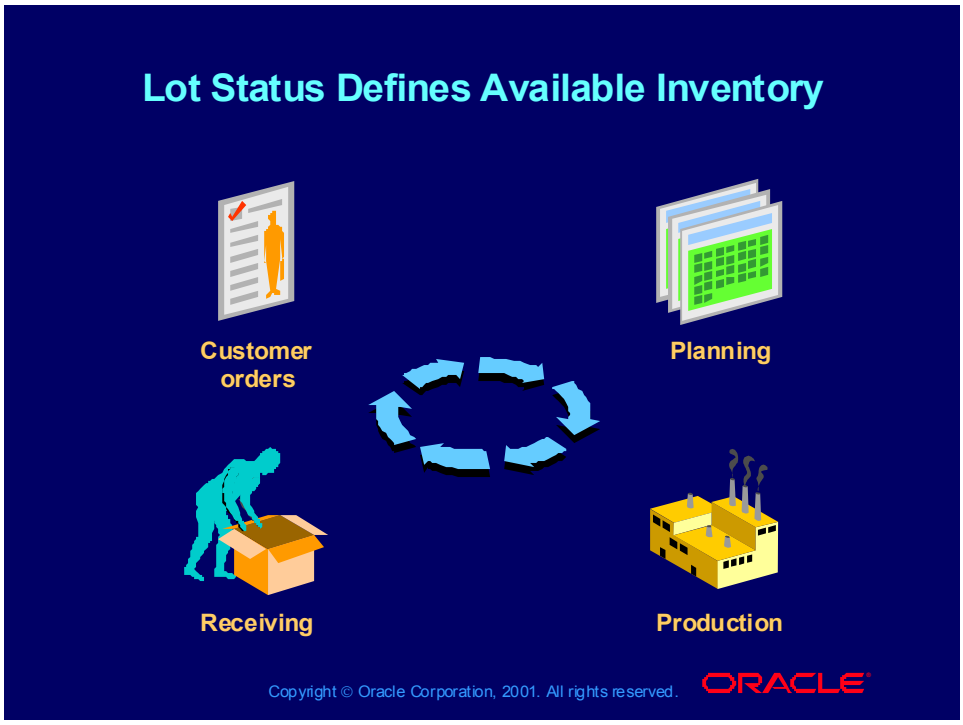

Lot Status Defines Available Inventory

Oracle Process Manufacturing supports complete visibility into inventory lot status. Inventory lot status is managed in OPM Inventory Management. Lot status codes define inventory as available for use in order processing, shipping, production, and planning. You can also flag a lot as not available or as rejected for any business purpose. Lot status changes can be effective immediately, journaled, or performed on an enterprisewide basis, providing control and communication to all affected users. This ensures containment of materials from inappropriate use.

For discussion, you may want to ask students to provide examples of how their businesses assign lot statuses and how they use the statuses in inventory control.

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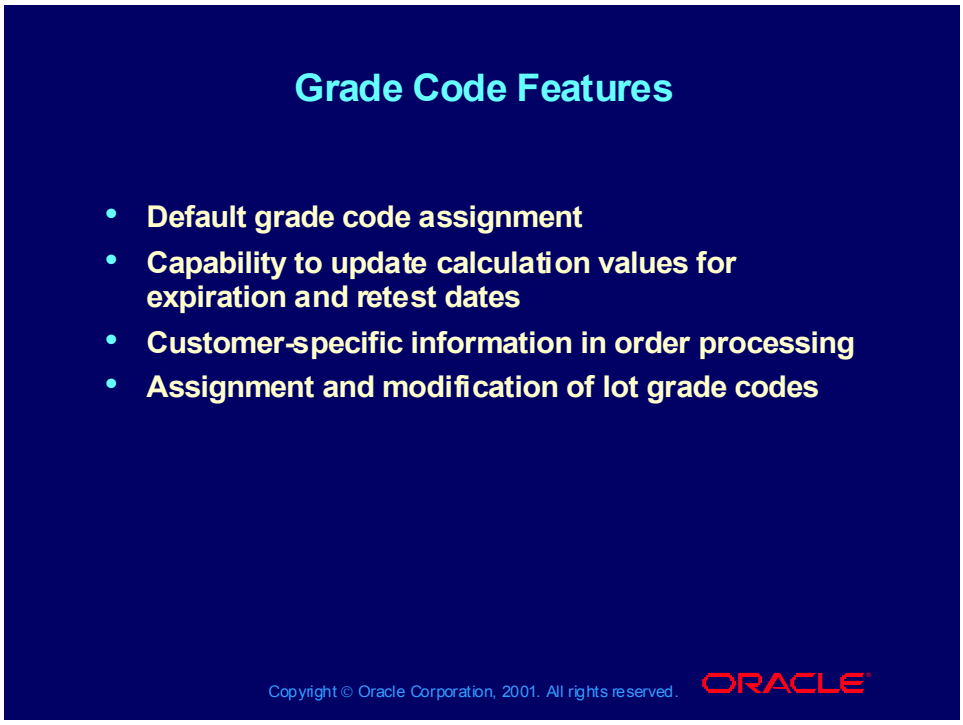

Grade Code Features

Grade codes provide the ability to differentiate materials. The environmental factors and ingredient characteristics of a process can cause the manufactured product to have different characteristics. Customers may require varying degrees of purity that also require updating. Grades are enterprise specific. A grade can have different specifications and characteristics for each customer.

Grades are input in OPM Quality Management but are assigned to the item or lot in OPM Inventory Management.

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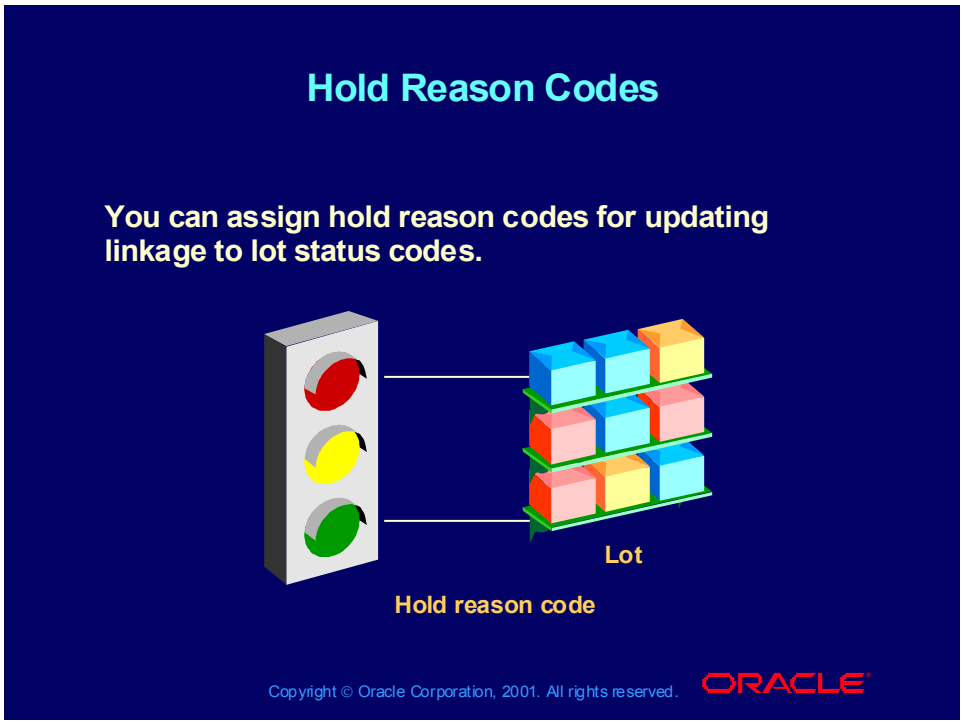

Hold Reason Codes

The primary system control tool for QC resides in the lot status function in the Inventory module. Lot status codes have switches that define usage control levels. This function also enables default value assignments for an item code. You can assign a lot status code of QUAR (quarantine) with usage flags set to 0. This disables material usage in Oracle Process Manufacturing. The lot status code QUAR might require chemical or microbiological testing prior to usage.

These flags enable inventory usage in key business activities, but not for shipping. Upon completion of QC testing and result entry, a QC analyst can decide to approve or reject the material and update the lot status code in the Inventory Quantities window found in the Inventory module.

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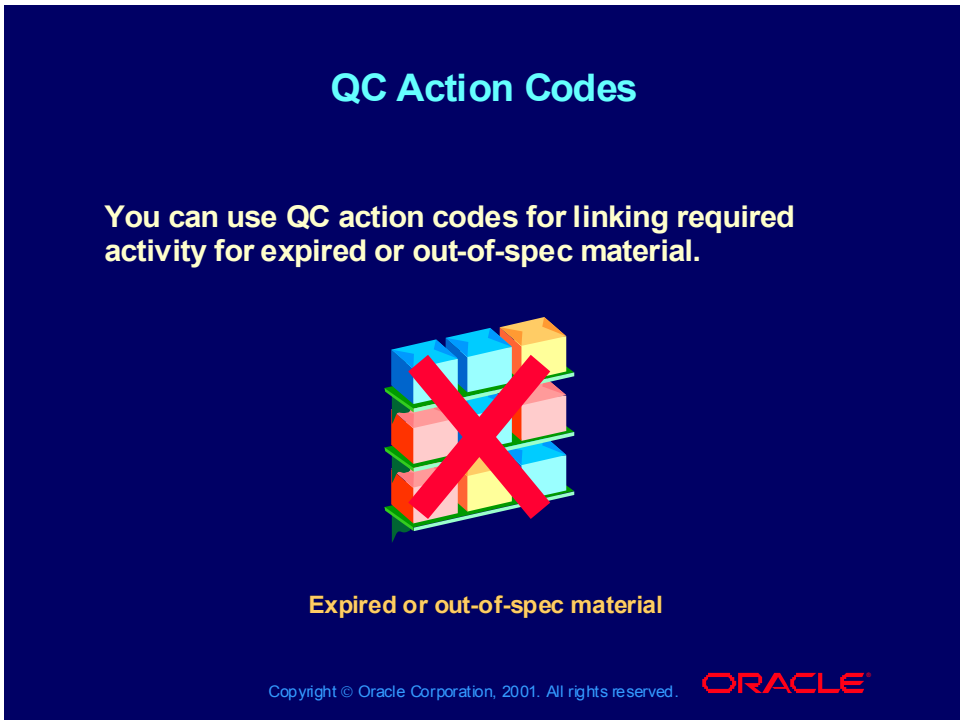

QC Action Codes

Actions are date sensitive. Resetting or regrading of material may be required before lot expiration. Time intervals, either positive or negative days, are part of action code updating. For an action, a positive value of 10 may mean that the material must be disposed of within ten days of expiration. A negative value of –10 may mean that the material must be retested ten days before the expiration date to ensure product characteristics or product purity.

You can update action codes when you define the specifications of the QC object. When you change the specification requirements, click Continue so that you can update action information. Interval defaults are displayed for this QC action code table.

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Agenda

Agenda

- Establishing OPM Quality Parameters
- Managing Quality Control Sampling
- Recording Quality Control Results
- Executing Quality Management Reports and Inquiries
- Describing Quality Sample Workflow

Oracle Process Manufacturing
Quality Management

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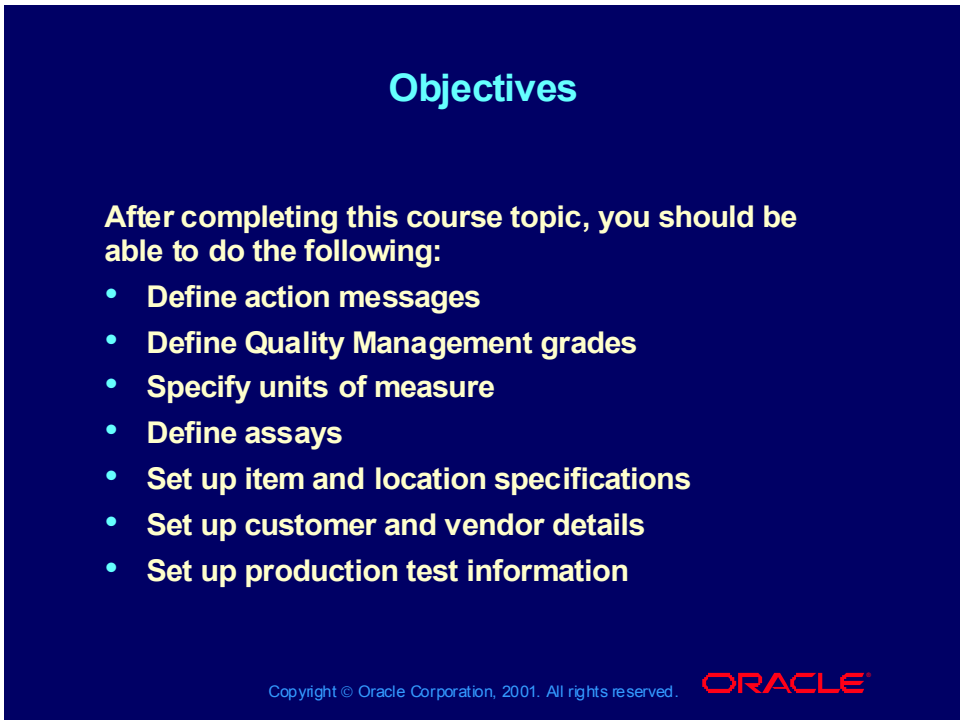

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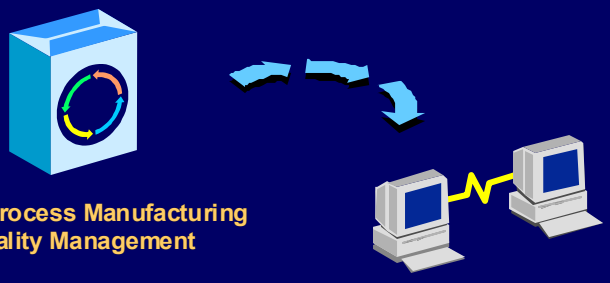
Setup Overview

Before implementing the Oracle Process Manufacturing Quality Management module, you must perform setup steps first.



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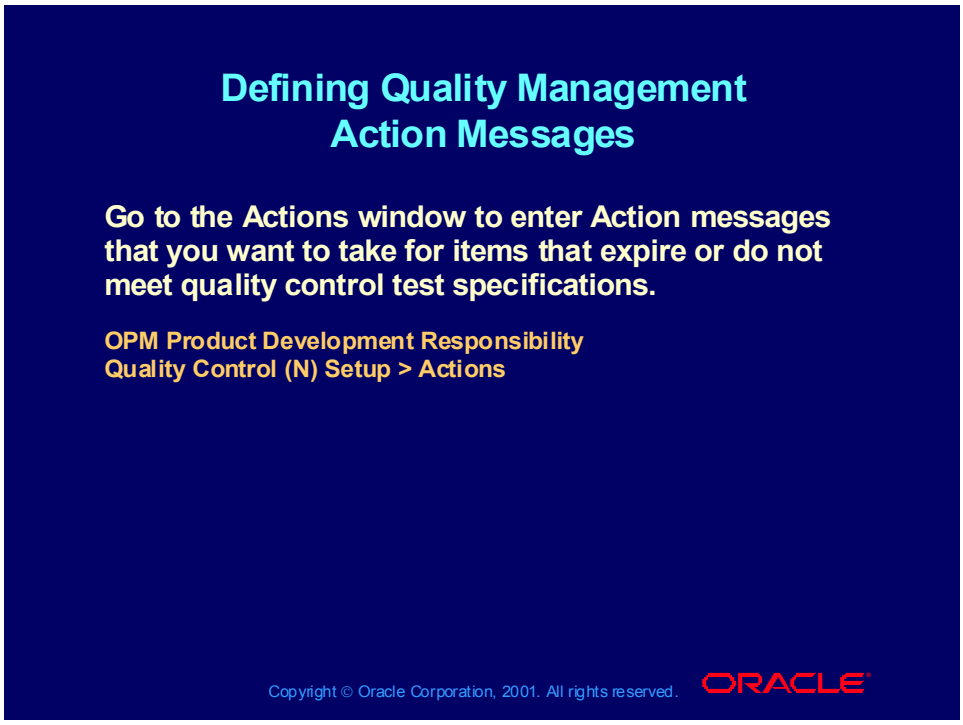

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... > Setting Up Action Codes Procedure

... > Action Codes Field Reference

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Specifying Quality Management Grades

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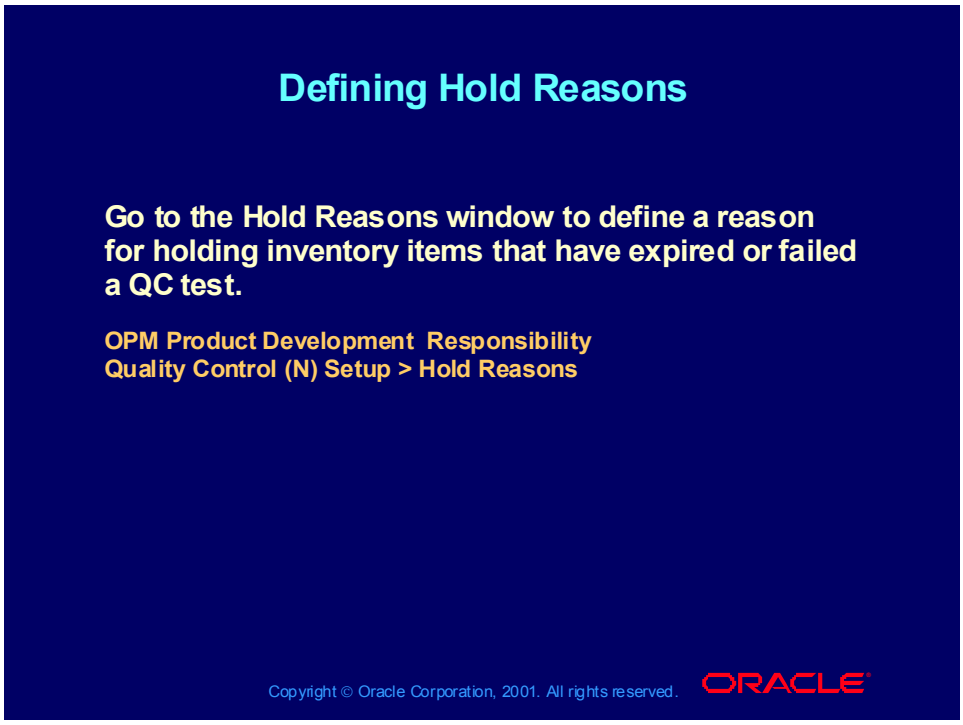
Defining Hold Reasons



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Setting Up Lot Status Control

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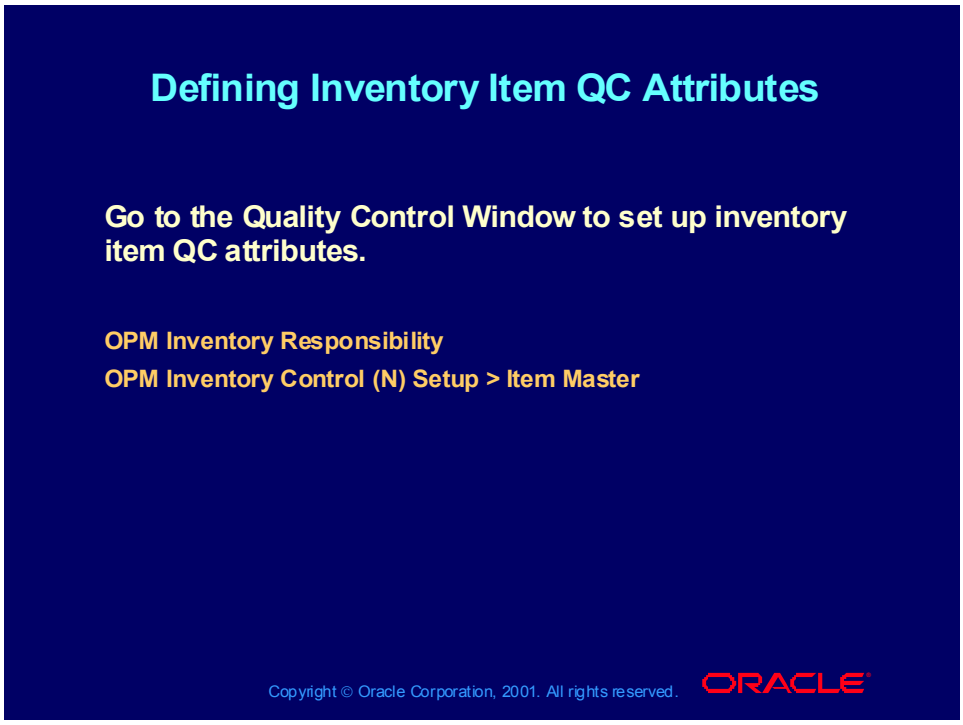
Defining Inventory Item QC Attributes



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... > Inventory Item QC Attributes Field Reference

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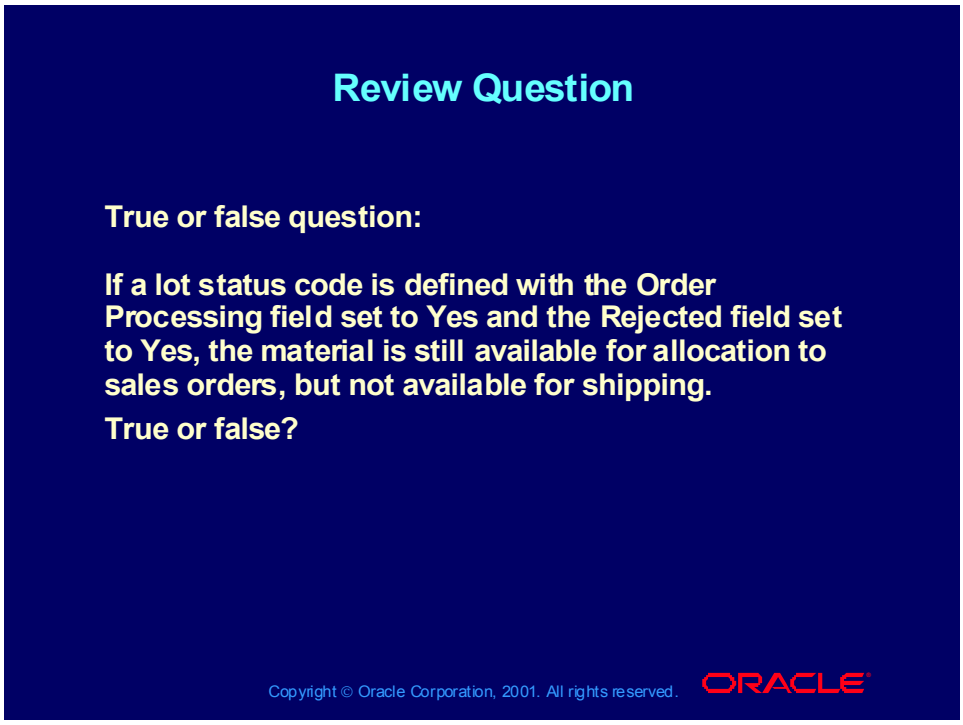

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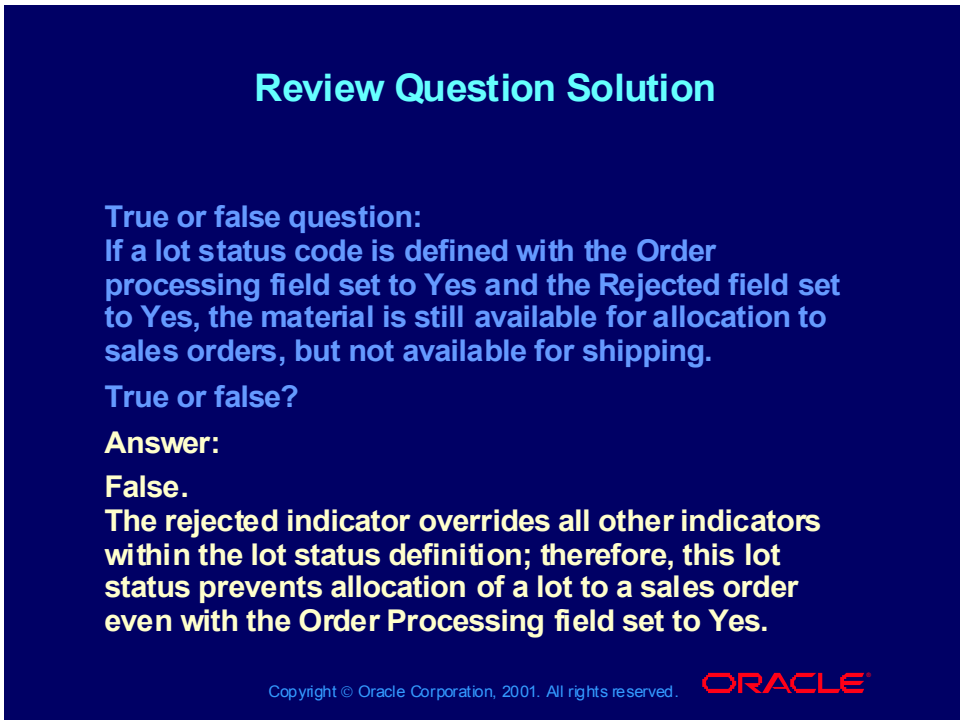

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Practice 1

Lot status code scenario:

Jeanine, the QC manager, requests setup for a lot status code TEST to represent material on test after it is manufactured. She wants to prevent the material from being shipped to a customer until it is released from QC.

Suggest the lot status indicator configuration for nettable, order processing, production, shipping, and rejected to satisfy Jeanine's request.

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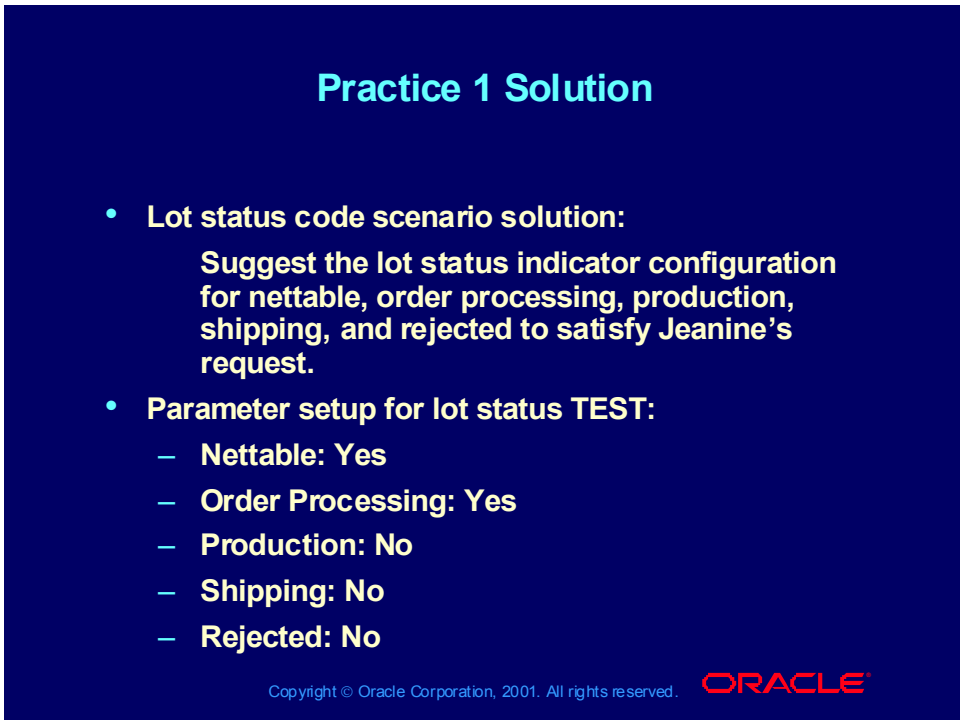

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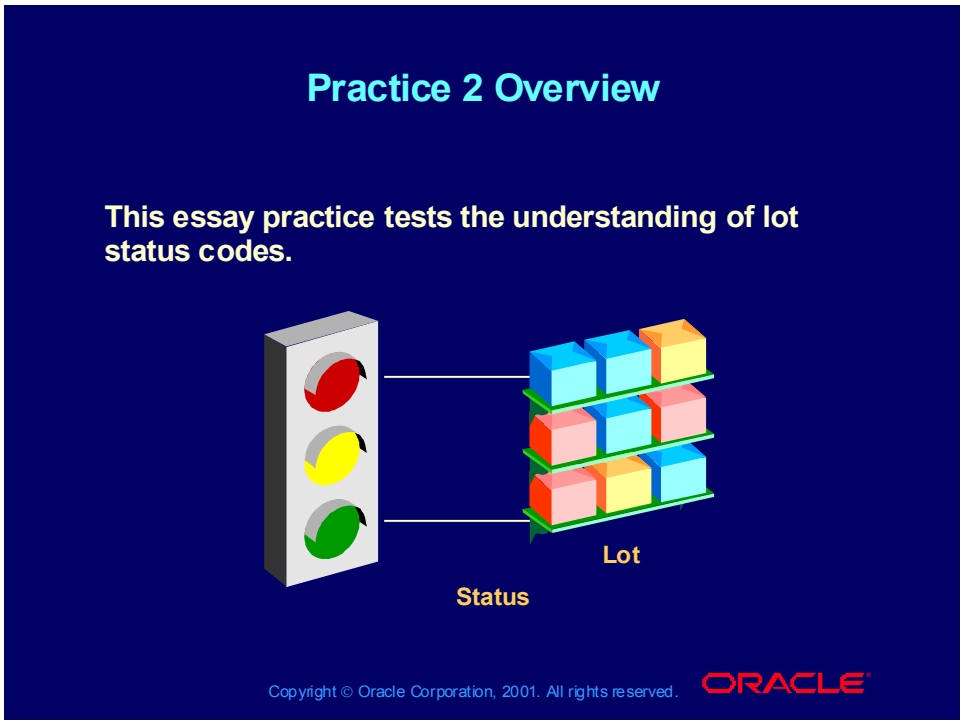

Mom's Cookie Company Scenario: Part 1

At Mom's Cookie Company, incoming rail cars of flour are inspected before they are received into inventory. Upon confirmation of the load, the flour is piped into a hold silo for storage. Each rail car is received into OPM as a single lot by warehouse personnel. Under current practices, everyone "just knows" that the flour in the hold silo is not available for production.

At the time of receipt, a sample is taken from the rail car for QC testing. The flour is not to be consumed by production until a QC release is given.

How would you recommend that the warehouse receiving and QC releasing activities be streamlined to provide better control of the hold and release events?

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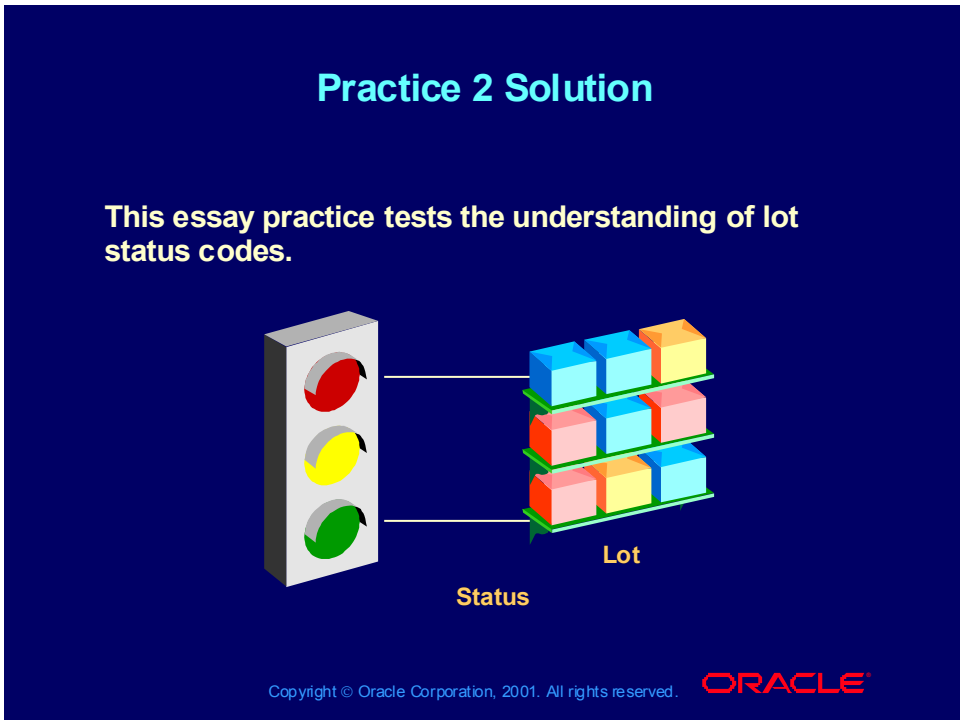
Practice 2 Solution



Mom's Cookie Company Scenario: Part 1

At Mom's Cookie Company, incoming rail cars of flour are inspected before they are received into inventory. Upon confirmation of the load, the flour is piped into a hold silo for storage. Each rail car is received into OPM as a single lot by warehouse personnel. Under current practices, everyone "just knows" that the flour in the hold silo is not available for production.

At the time of receipt, a sample is taken from the rail car for QC testing. The flour is not to be consumed by production until a QC release is given.

How would you recommend that the warehouse receiving and QC releasing activities be streamlined to provide better control of the hold and release events?

Mom's Cookie Company Scenario: Part 1 Solution

Upon receipt, the flour should be automatically placed on hold through a default lot status. The hold lot status should be defined to prevent it from being consumed for production. The lot is visible in OPM with the hold lot status.

The QC department should be responsible for changing the lot status from hold to released so the lot can be used in production. The lot is visible in OPM with the released lot status.

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Customer and Vendor Specifications

You can define specifications for each item or lot in your inventory for each customer or supplier that you sell to or buy from or for each formula or production batch that you produce. You can use OPM Quality Management to compare the specifications that you define with actual test results that you enter.

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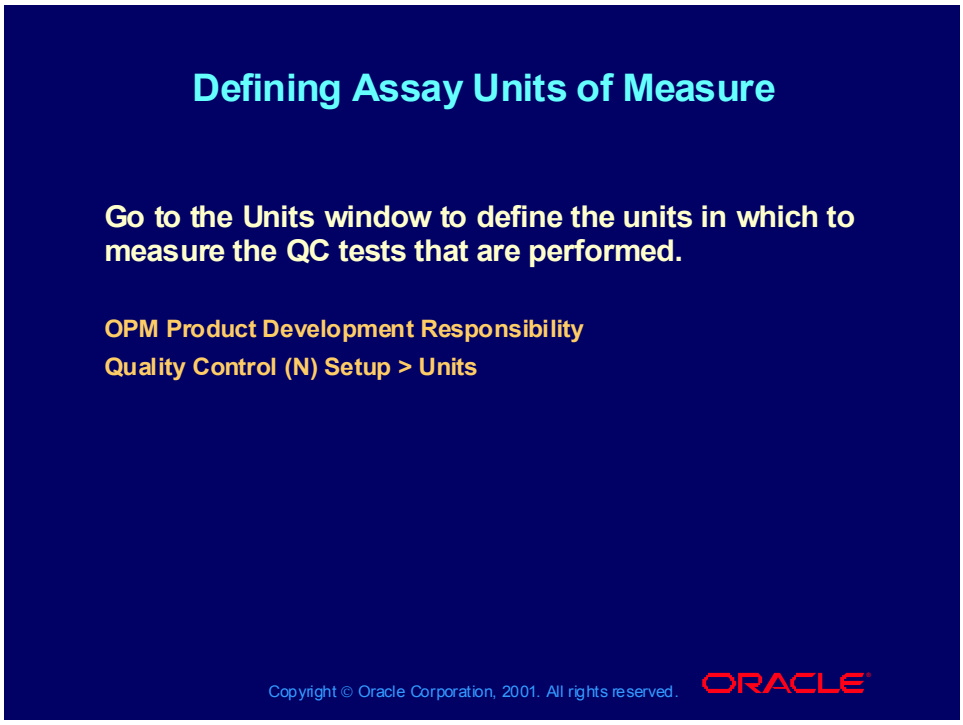
Defining Assay Units of Measure



(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Test Specifications Setup > Setting Up QC Assay Units of Measure

... > Setting Up QC Assay Units of Measure Procedure

... > Units Field Reference

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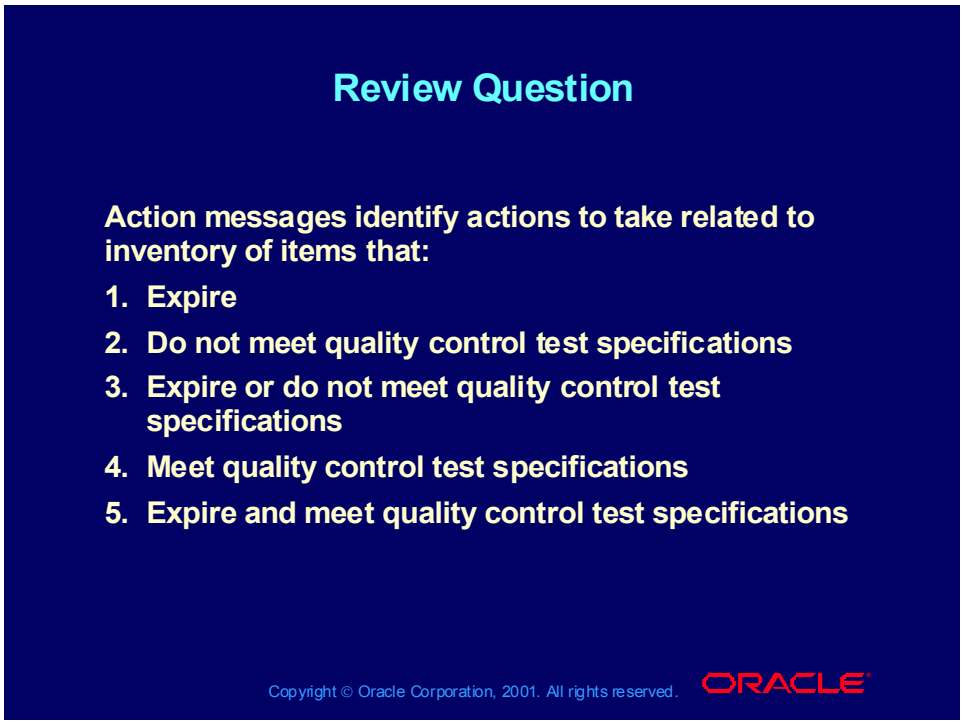

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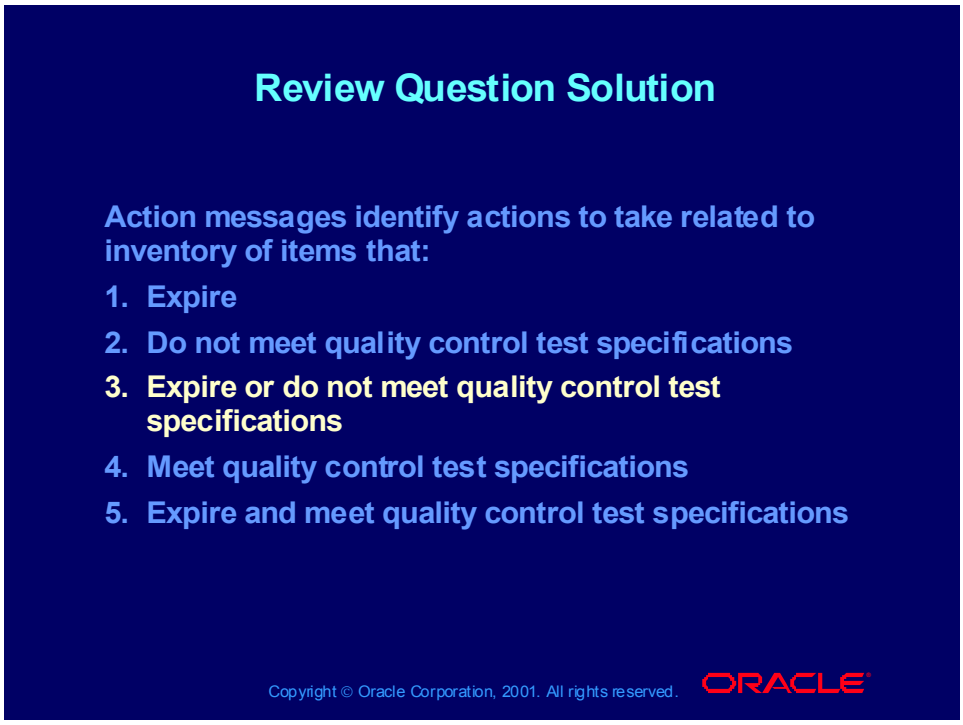

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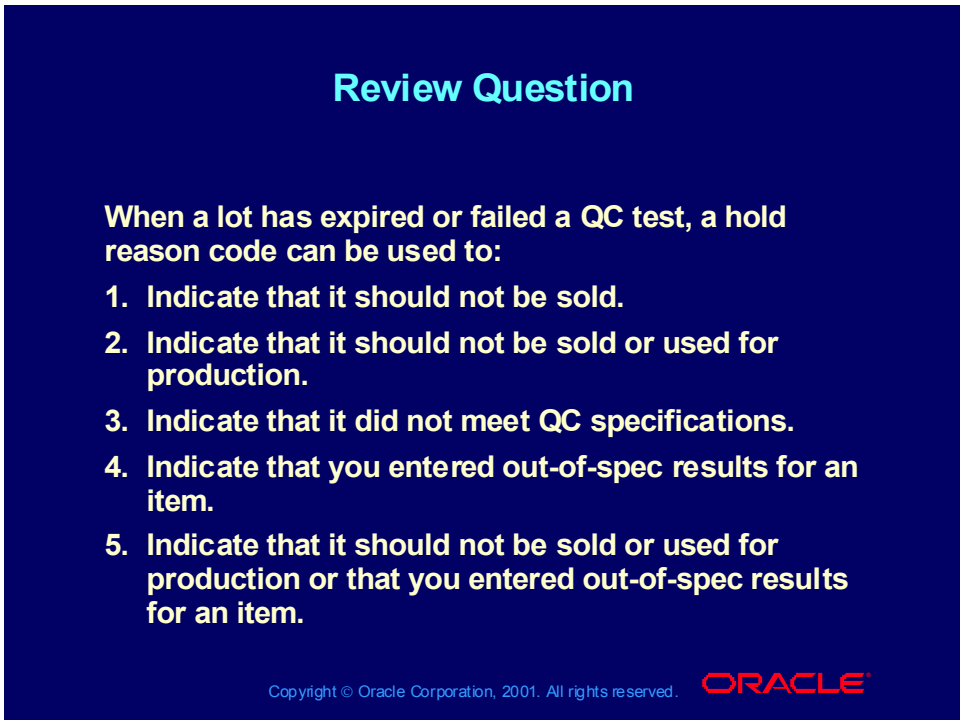

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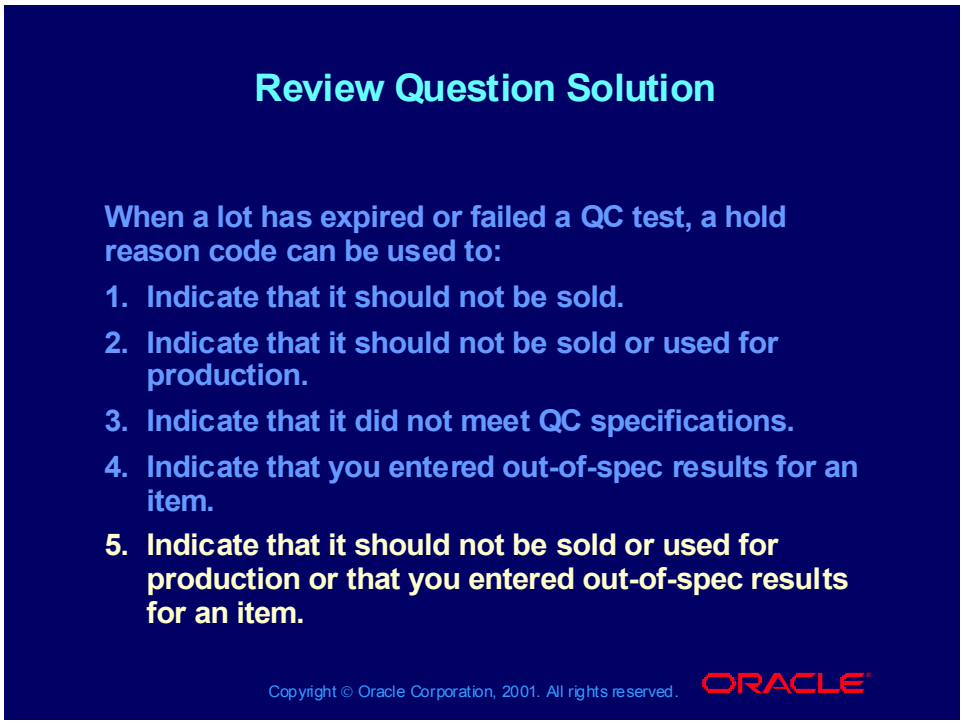

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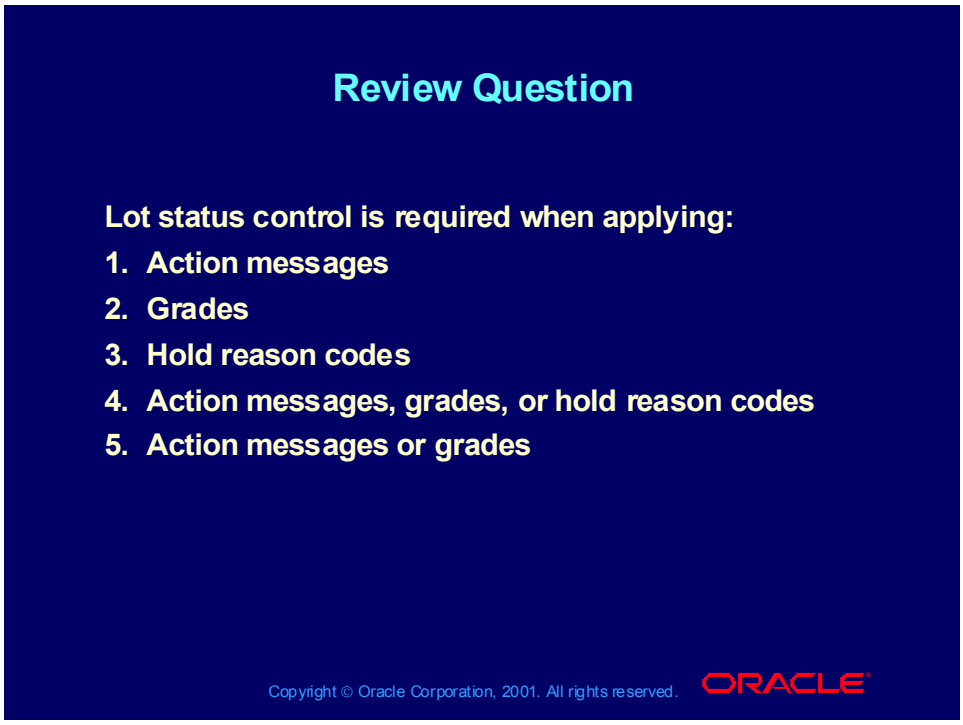

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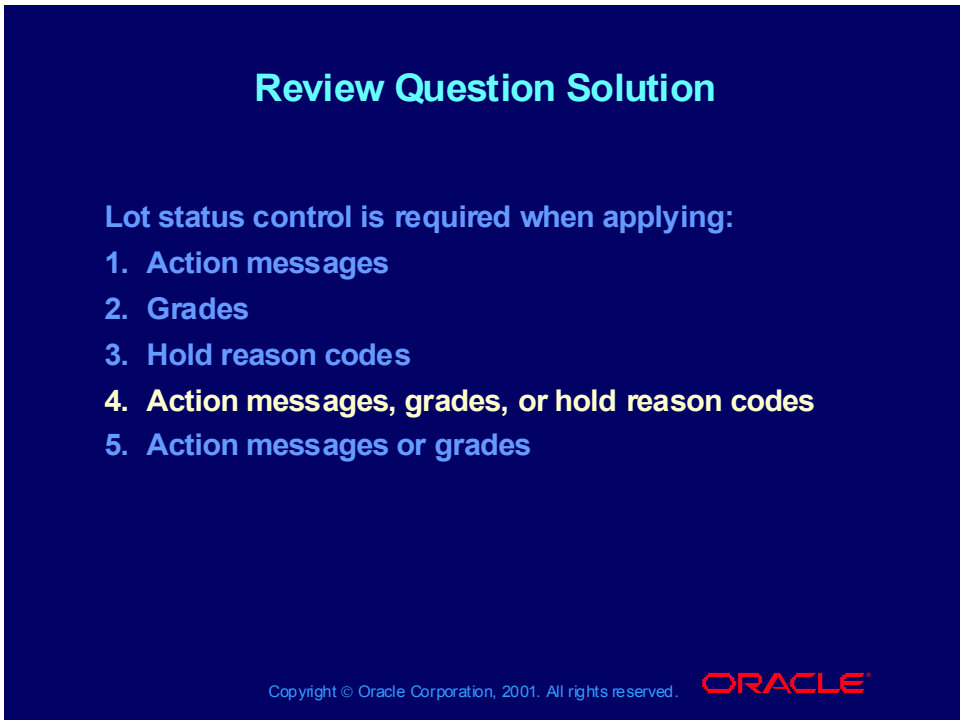

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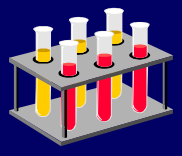
Defining Assays

You need to define the attributes you plan to measure and record in quality control.



- Color
- Flavor
- Saturation
- Viscosity
- Temperature

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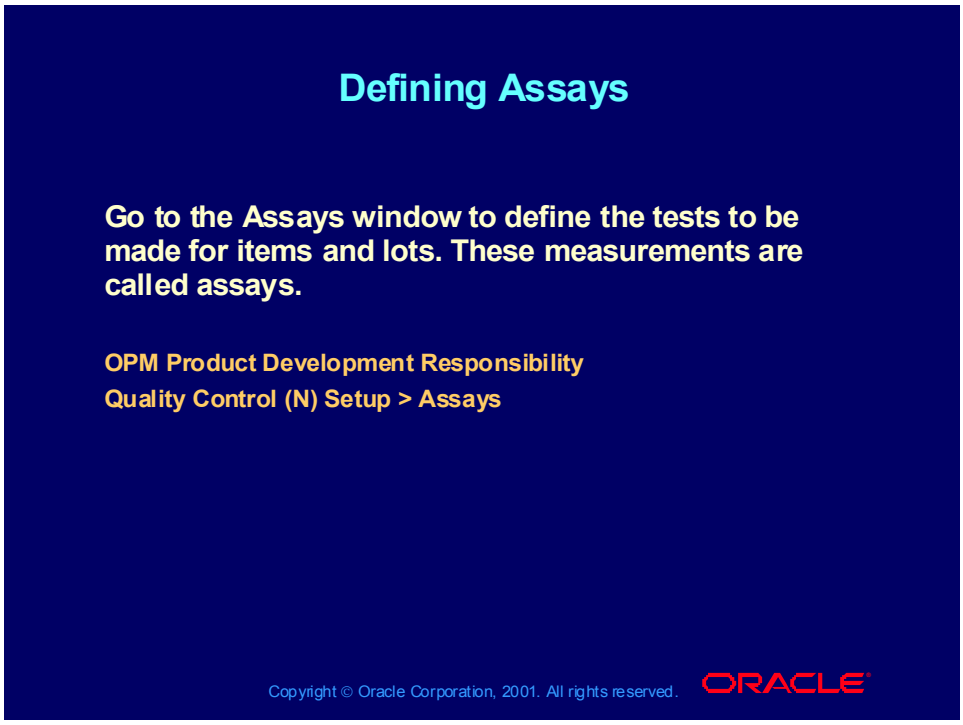

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Test Specifications Setup > Setting Up Assay Types

... > Setting Up Assay Types Procedure

... > Assays Window Field Reference

Note that you are setting the range values for all applications of this assay, not just for a specific test or item. Make sure that your values reflect the entire range. For example, if you were creating an assay for water temperature in degrees Fahrenheit, your minimum and maximum would look like this:

- Min range = 32
- Max range = 212

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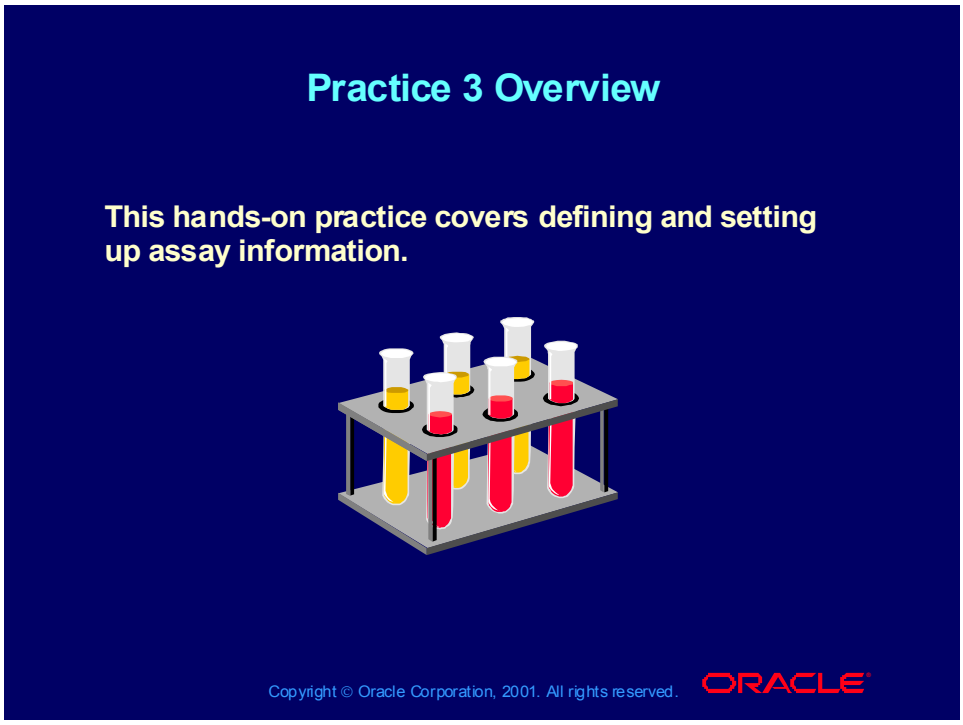

Practice 3

Setting Up a List of Specification Assay

In your assigned organization, the ice cream for the vanillas production line needs to be tagged by lot based on hue. Set up an assay CCB-*XX*, where *XX* is your terminal number, that creates five hue values for the beige production line.

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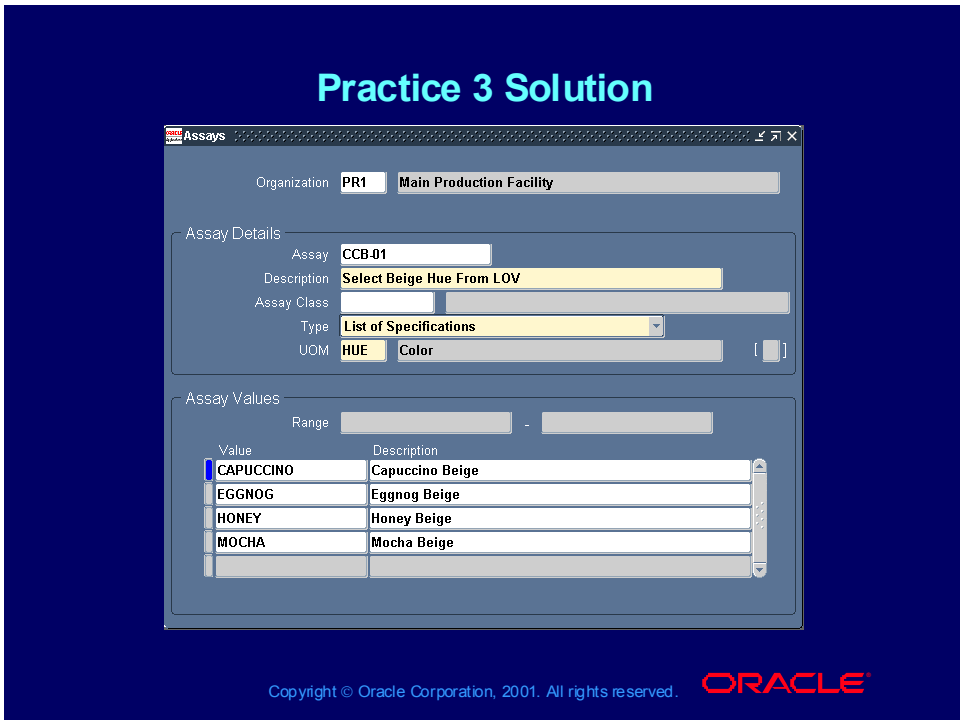

Setting Up a List of Specification Assay

In your assigned organization, the ice cream for the vanillas production line needs to be tagged by lot based on hue. Set up an assay CCB-*XX*, where *XX* is your terminal number, that creates five hue values for the beige production line.

Practice 3 Solution

1. Open the Assays window:

   (N) OPM Product Development > Quality Control > Setup > Assays
2. In the Assay Details region, enter the following information using your unique identifier:
   - Organization: Accept the default value
   - Assay: `CCB-`*XX*
   - Description: Enter an appropriate description.
   - Type: Select List of Specifications from the drop-down list of values.
   - UOM: Select HUE from the pop-up list of values. Click in the flexfield box, and enter a description flexfield in the Assay Information pop-up window.
3. In the Assay Values region, enter values and descriptions for several shades of beige.
4. Save your work.

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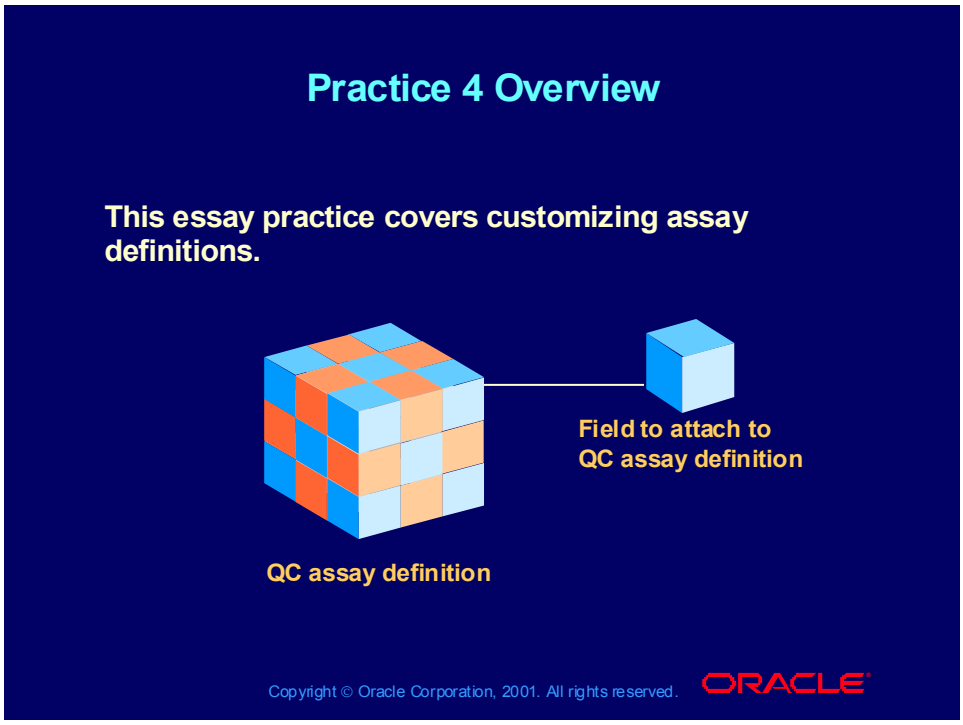
Practice 4 Overview



Practice 4

Mom's Cookie Company Scenario: Part 2

Based on the scenario discussion in practice 2, incoming rail cars of flour at Mom's Cookie Company are automatically placed on hold by way of a default lot status. How would this setup look in the OPM?

What must occur before the flour is available for production allocation in OPM?

QC Assay Definitions Scenario

A specialty chemical manufacturer is defining assay codes for use in production. The QC lab manager would like some way to attach a field to the QC assay definition that would store the company's general ISO 9000 procedure number as a reference for performing the assay.

What is your recommendation on how this could be accomplished without customization to the QC Assay window?

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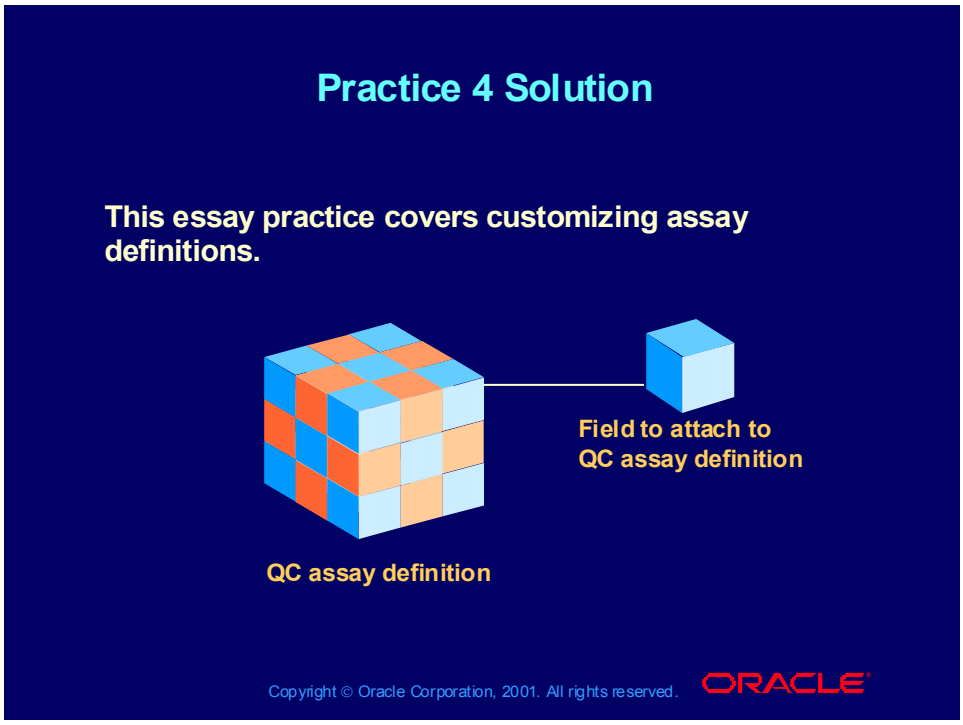

Practice 4 Solutions

Mom's Cookie Company Scenario: Part 2

Based on the scenario discussion in practice 2, incoming rail cars of flour at Mom's Cookie Company are automatically placed on hold by way of a default lot status. How would this setup look in OPM?

What must occur before the flour is available for production allocation in OPM?

Solution

Flour Item Setup

Lot Control: Yes

Status Control: Yes

Lot Status Production flag: No

Action to transfer the lot from hold status to good status:

Quality control must perform a status change to transfer the lot from hold status to good status, where good is defined with the Production flag set to Yes.

QC Assay Definitions Scenario

A specialty chemical manufacturer is defining assay codes for use in production. The QC lab manager would like some way to attach a field to the QC assay definition that would store the company's general ISO 9000 procedure number as a reference for performing the assay.

What is your recommendation on how this could be accomplished without customization to the QC Assay window?

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Solution

Create a user-defined field to capture the ISO 9000 procedure number in OPM systems setup.

Table: qc_assay typ

Field Name: user_class1

Define a field name: ISO#:

Validation Indicator: No

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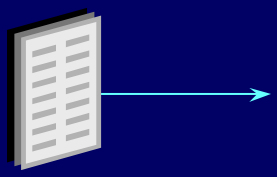
Item and Location Specifications

You can define specifications for any item or location.



- Assay
- Target specification
- Preference
- Date range
- Acceptable values
- Out-of-spec action

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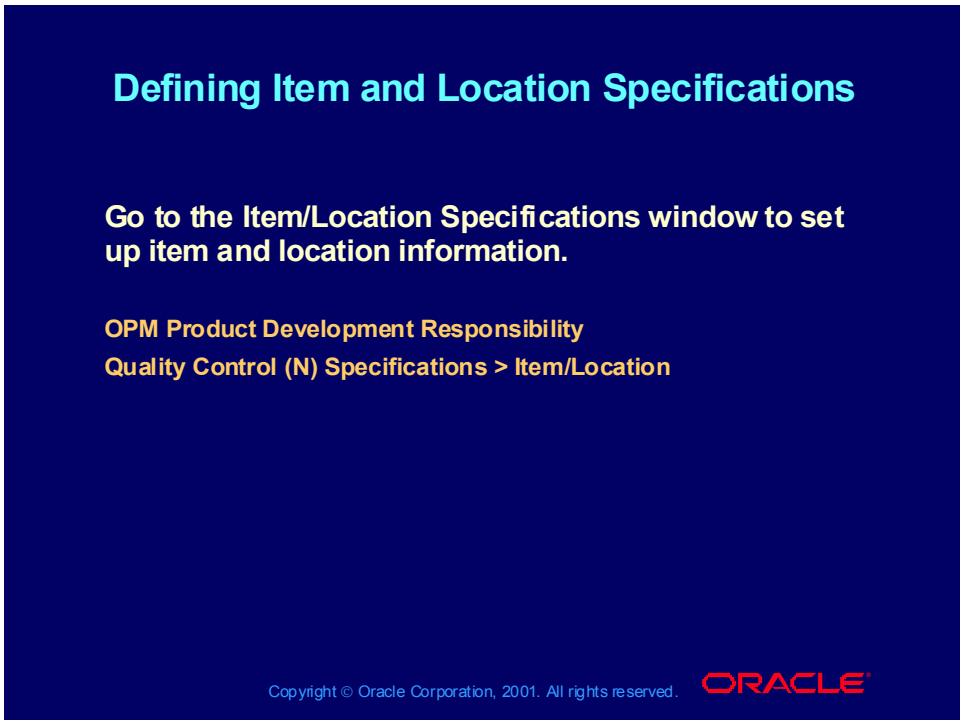

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Test Specifications Setup > Setting Up QC Item/Location Specifications

... > Setting Up QC Item/Location Specifications Procedure

... > Item/Location Specifications Field Reference

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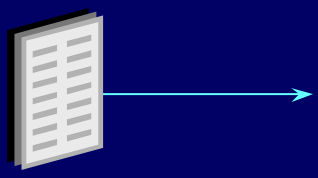
Customer and Vendor Specifications

You can define the specifications for a customer's products or for a supplier's materials.



- Multiple specifications
- Target specification
- Date range specification
- Acceptable values
- Out-of-spec action

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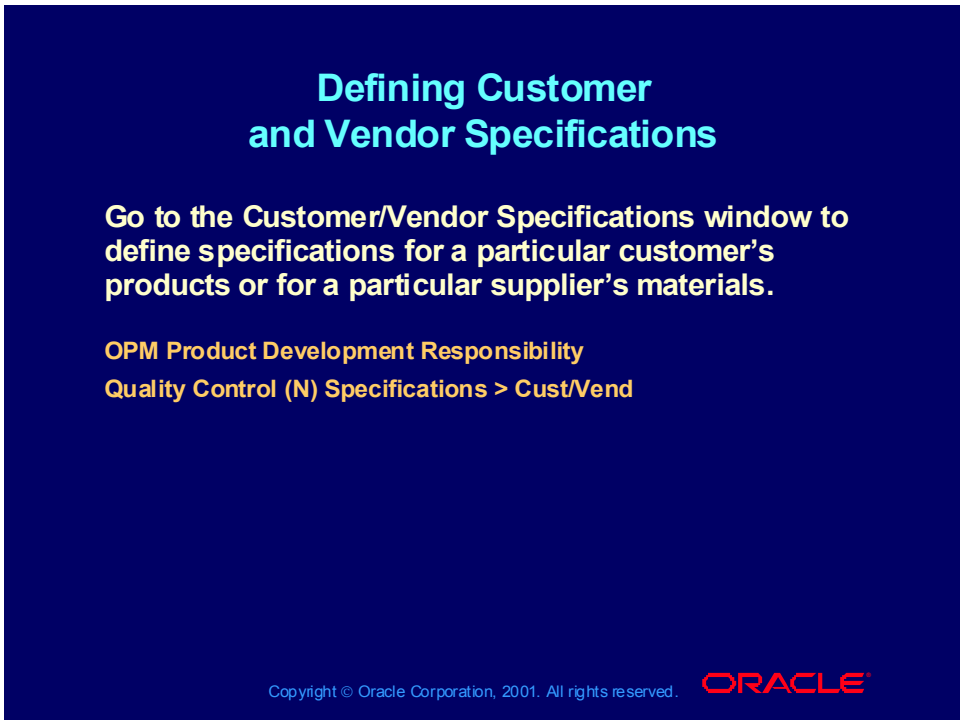

(Help) Oracle Manufacturing Applications >Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Test Specifications Setup > Setting Up Customer/Vendor Specifications

... > Setting Up Customer/Vendor Specifications Procedure

... > Customer/Vendor Specifications Field Reference

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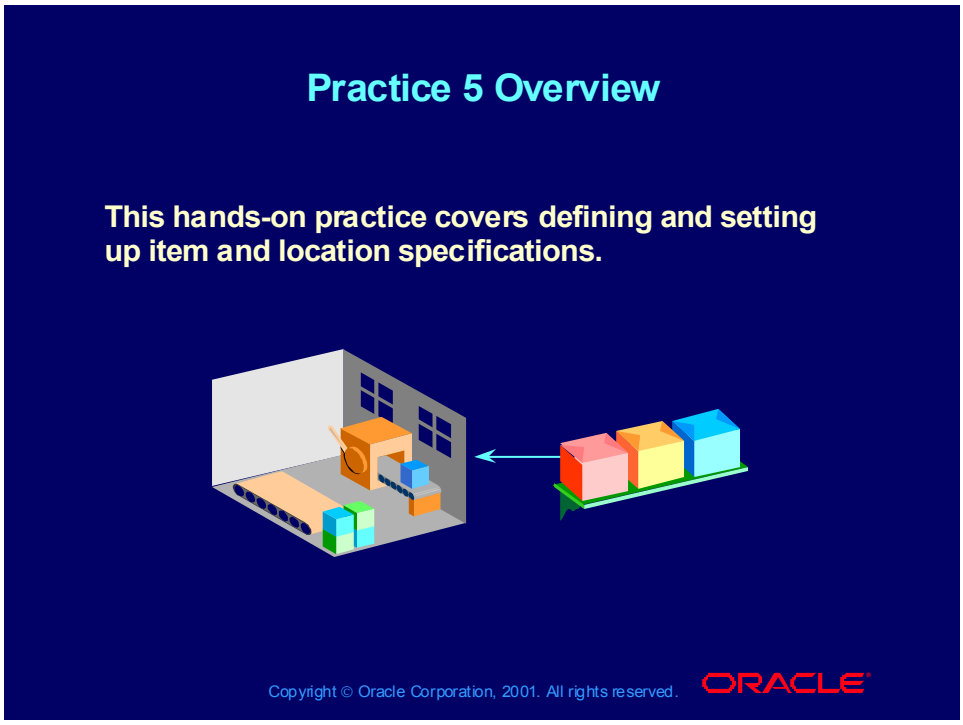

Practice 5

Setting Up Item/Location Specifications

In the process of setting up ice cream production, you need to set up the item specifications for your ice cream (item 9310) with two global assays: one that discards if the temperature is out of specification, and one of your CCB-*XX* assay specifications that retests if out of specification.

You also need to set up your heavy cream (item 9802) item specifications to reject if out of specification.

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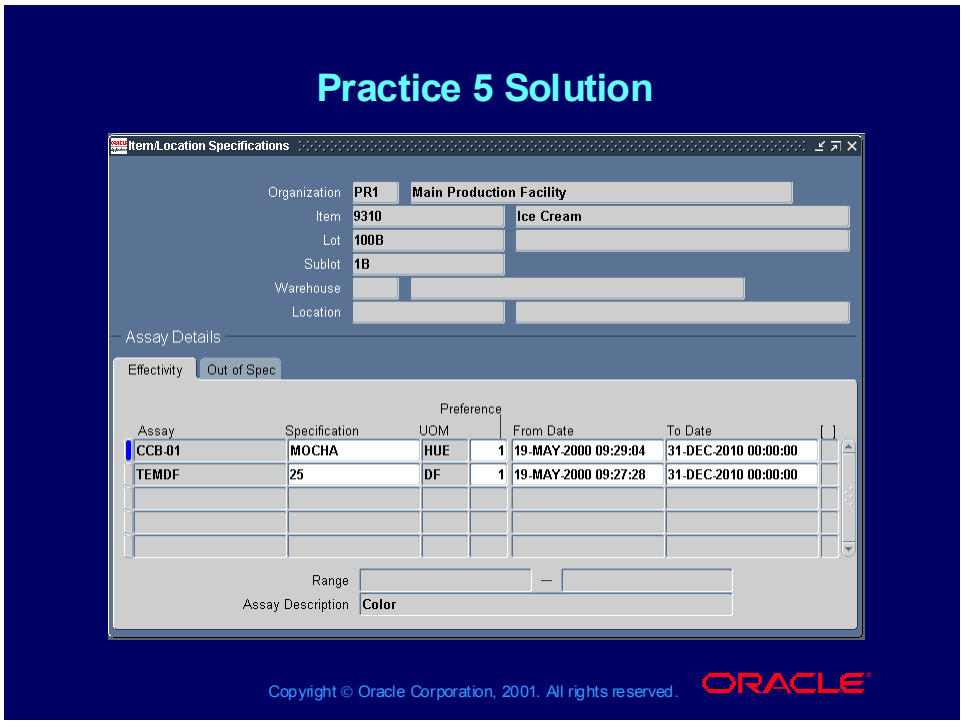

Practice 5 Solution

Setting Up Item/Location Specifications

1. Open the Item/Location Specifications window:

   (N) OPM Product Development > Quality Control > Specifications > Item/Location
2. Enter the following information using your unique identifier:
   - Item Code: `9310`
   - Lot: `100 B`
   - Sublot: `1B`

   Note: If you have a question about lot and sublot control, check the item setup for ice cream in the Items window.
3. In the Assay Details region, enter the following information:
   - Global assay: Select a temperature assay from the list of values to test temperature, and set up to discard if out of specification.
   - CCB-*XX* assay: Select one of your hue specifications, and set up to retest if out of specification.
4. Save your work.

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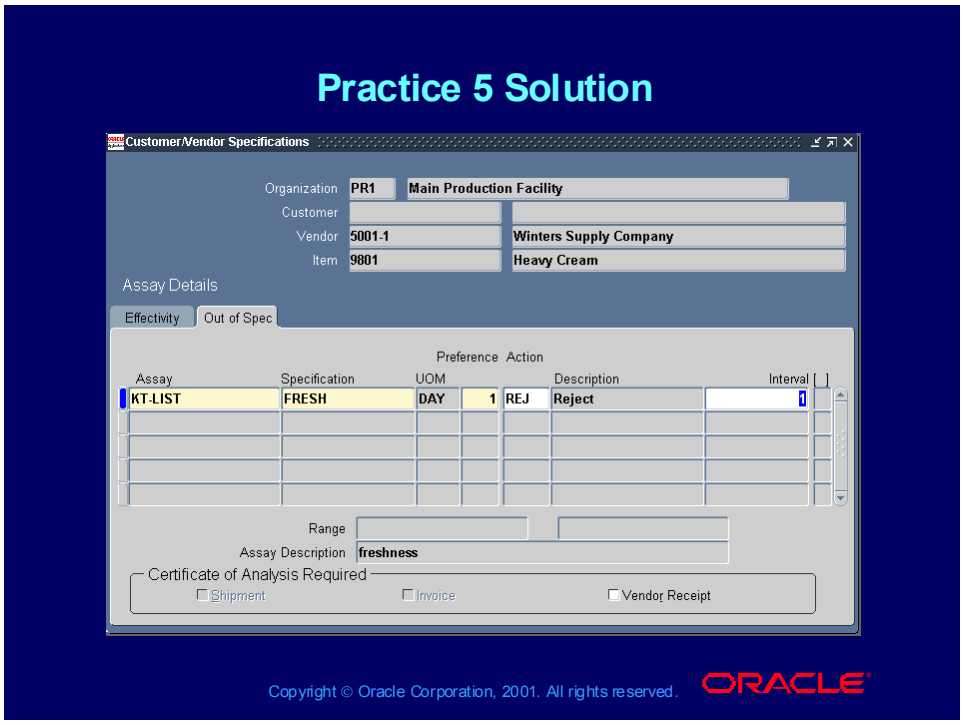

Setting Up Customer/Vendor Specifications

1. Open the Customer/Vendor Specification window:

   (N) OPM Product Development > Quality Control > Specifications > Cust/Vend
2. Enter the following information using your unique identifier:
   - Vendor: `Winters Supply Company`
   - Item: `9801`
3. In the Assay Details region, enter the following information:

   Global assay: Select KT-LIST assay from the list of values to test freshness, and set up to reject if out of specification.
4. Save your work.

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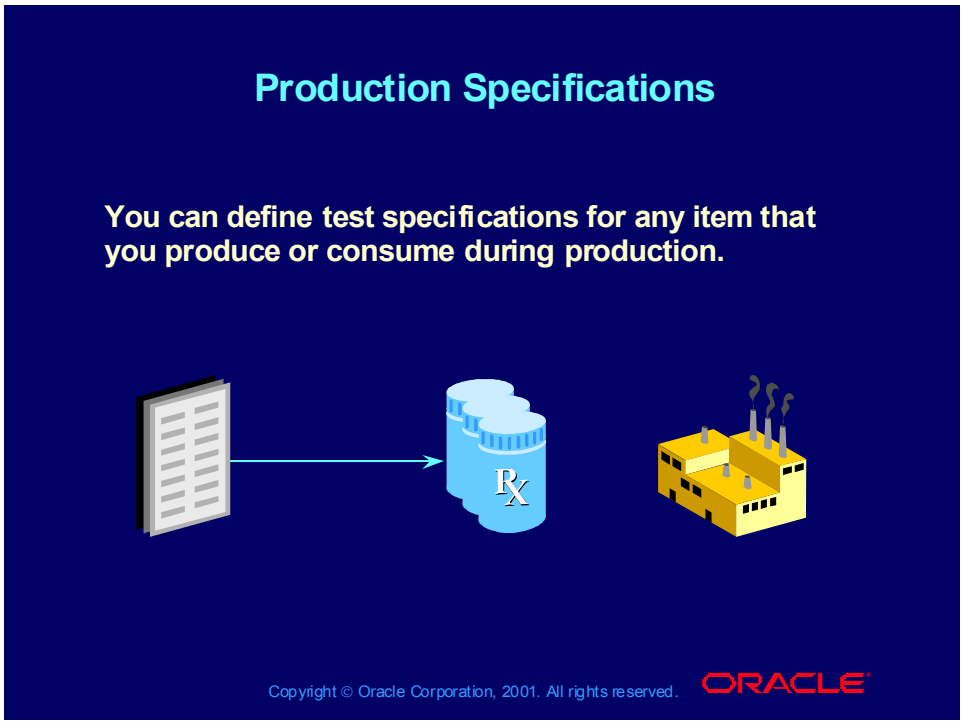

Production Specifications

You can establish the specifications for any combination of production batch, formula, routing, or operation. You can establish multiple specifications for an item.

For each assay, you can establish a target specification (the most desired result) as well as a preference for assay with respect to all other specifications defined for the item. You can specify the date range within which the specification is effective.

You can define minimum and maximum acceptable values for the assay, as well as out-of-spec actions to be performed for items that fail assays (or expire) for range-validated assays.

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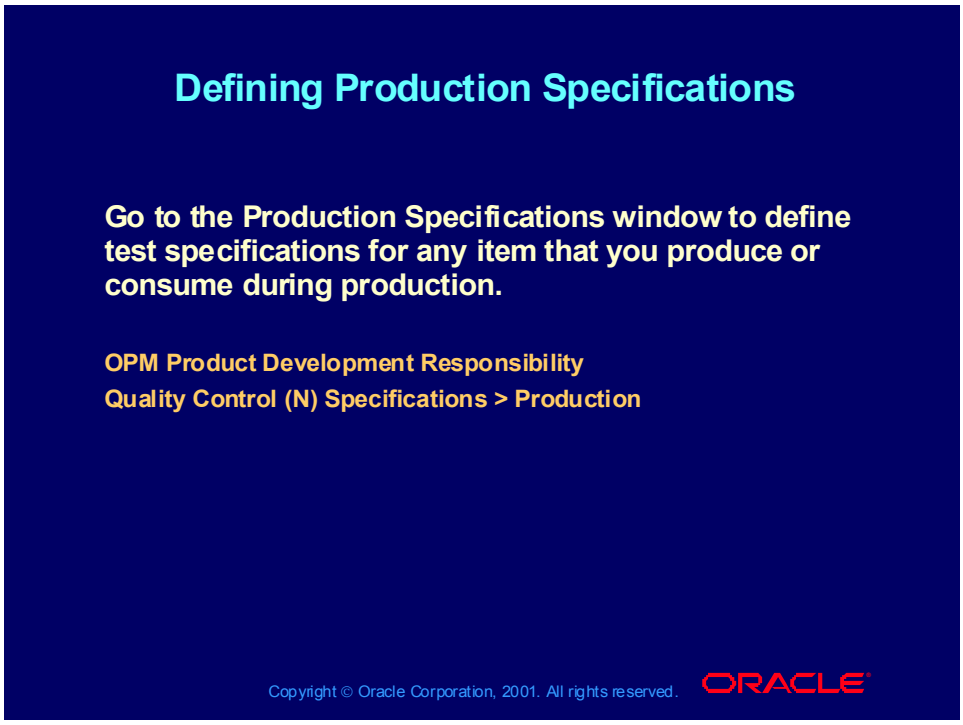

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Test Specifications Setup > Setting Up Production Specifications

... > Setting Up Production Specifications Procedure

... > Production Specifications Field Reference

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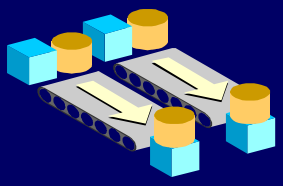
Practice 6

Setting Up Production Specifications

You need to set up production specifications for your intermediate product (*XX*INTR) for a 75 degrees Fahrenheit global quality range.



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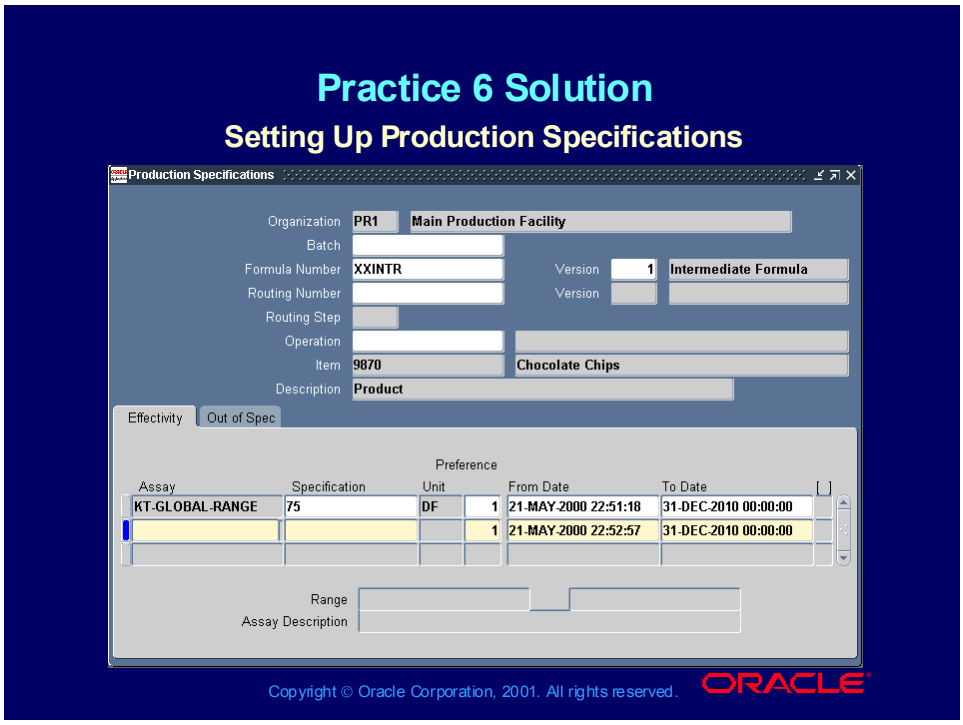

Practice 6 Solution

Setting Up Production Specifications

1. Open the Production Specifications window:

   (N) OPM Product Development > Quality Control > Specifications > Production
2. Enter the following information using your unique identifier:
   - Formula Number: Select *XX*INTR from the list of values.
   - Item: `9870`
3. In the Assay Details region, enter the following information:
   - Assay: Select KT-GLOBAL-RANGE from the list of values.
   - Specification: `75`
   - Dates: Accept the default or specify new range.
4. Save your work.

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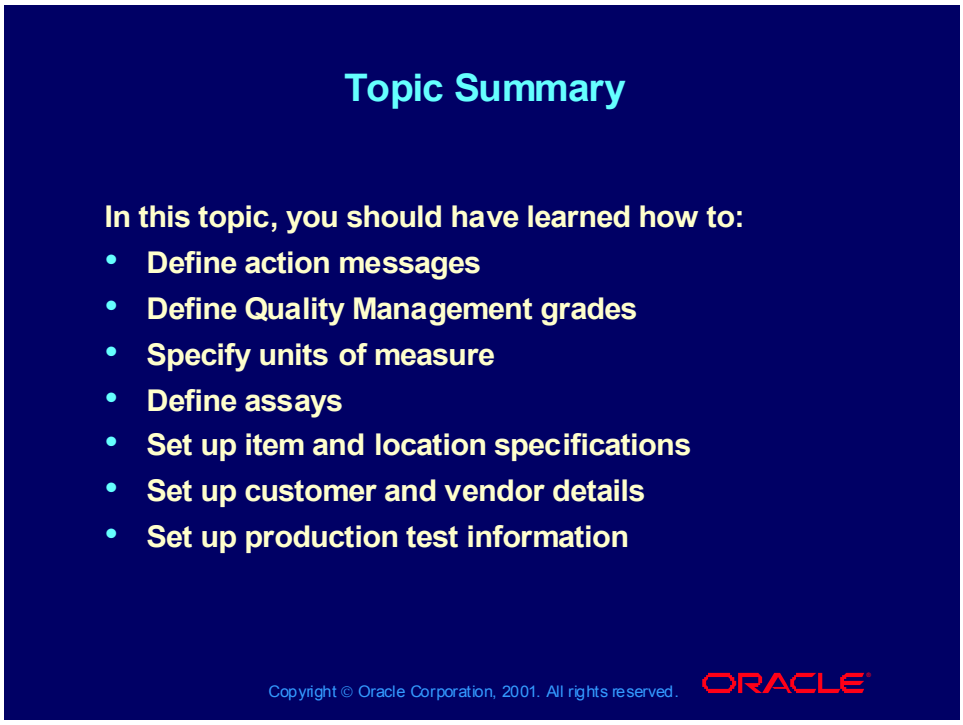

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Agenda

Agenda

- Establishing OPM Quality Parameters
- Managing Quality Control Sampling
- Recording Quality Control Results
- Executing Quality Management Reports and Inquiries
- Describing Quality Sample Workflow

Oracle Process Manufacturing
Quality Management

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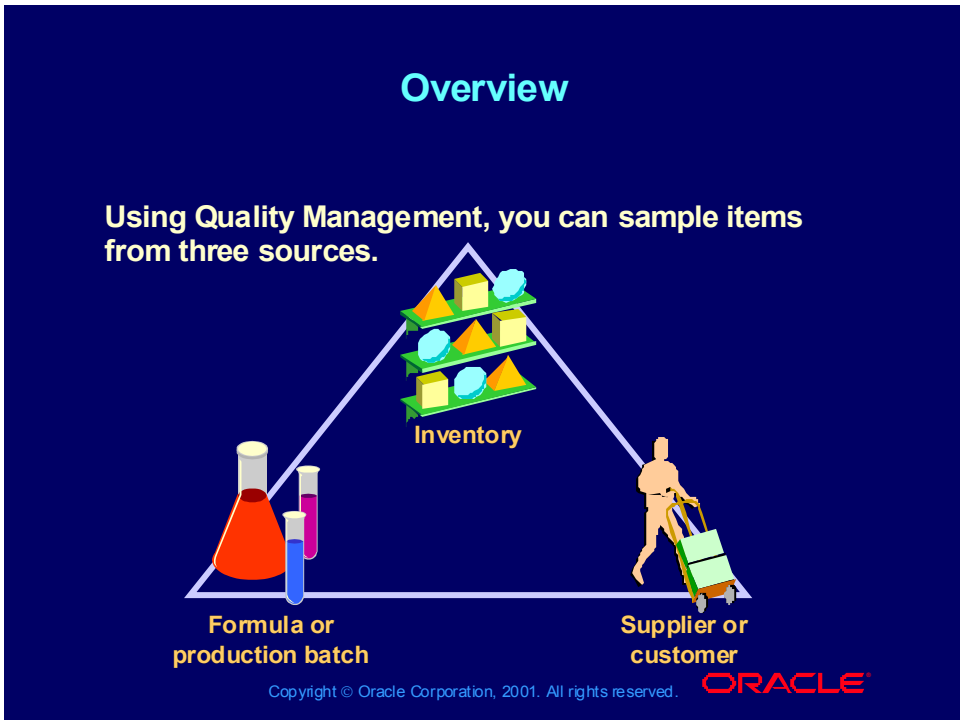

Overview

You typically perform quality control sampling from these areas:

- Inventory
- A customer or supplier
- A formula or production batch

Before you sample any of these types of materials, you may need to generate a report that specifically indicates which inventory and locations to sample.

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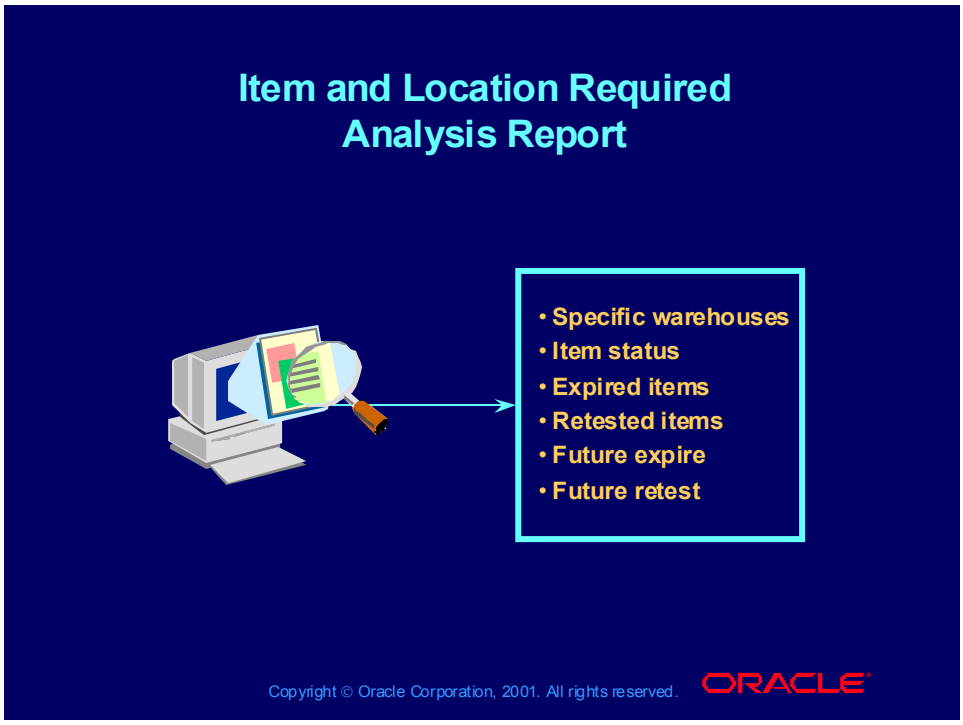

Item and Location Required Analysis Report

You can identify the inventory that may need QC attention by generating the Item and Location Required Analysis Report. The purpose of this report is to identify assays for inventory that either has expired or is expiring. In order to identify assays, there must be specifications. This report does not advise about which lots are expiring. You can set up the report to include:

- Inventory from the specific warehouses by lot status
- Inventory currently expired or for which a retest is required
- Inventory of items that will expire or that will require future retest by specifying the number of days in advance that you want the report to include

Note: Only if lots and sublots for an item have item and location specifications associated to them and available inventory do they display on the report.

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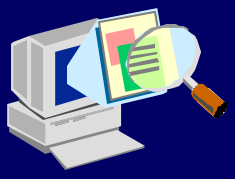
Instructor Demonstration

This demonstration covers generic report setup and running the Item and Location Required Analysis Report.



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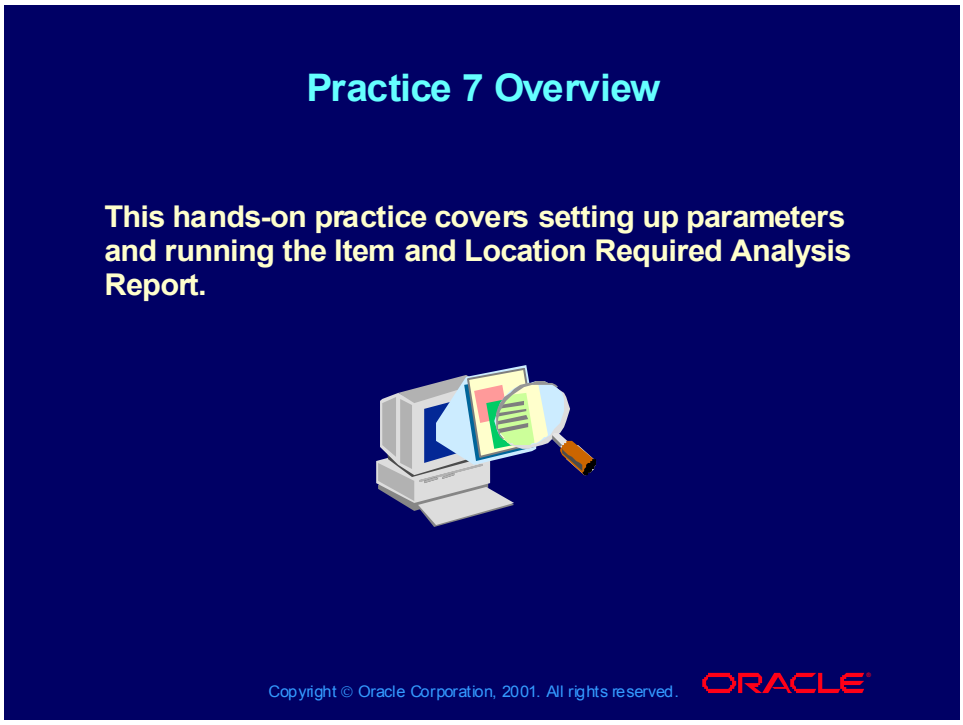

Practice 7

Generating the Item and Location Required Analysis Report

Identify the inventory that needs QC attention by generating the Item and Location Required Analysis Report.

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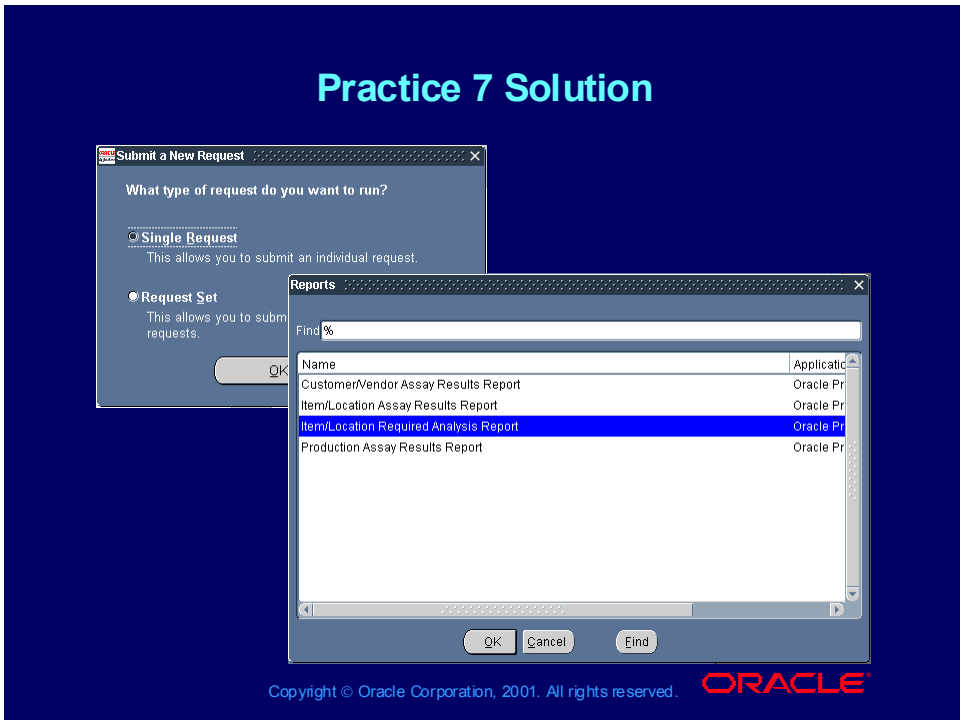

Practice 7 Solution

Generating the Item and Location Required Analysis Report

1. Open the Submit a New Request window, and click OK to submit a single request.

   (N) OPM Product Development > Quality Control > Reports > Run

2. Select the Item/Location Required Analysis Report from the Reports pop-up window, and
   click OK.

   The Parameters window opens.

3. In the Parameters window, enter the appropriate field parameters to produce the desired report. Click OK.

4. In the Submit Request window, accept execution defaults, and click Submit Request.

   Note: Be sure to note the request identification number separately.

5. Open the Requests window to see report results:

   (N) OPM Product Development > Quality Control > Reports > Run

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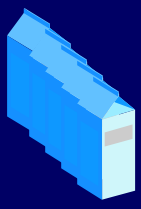
Sampling Inventory

You may need to sample material directly from inventory for testing.



Items

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ORACLE

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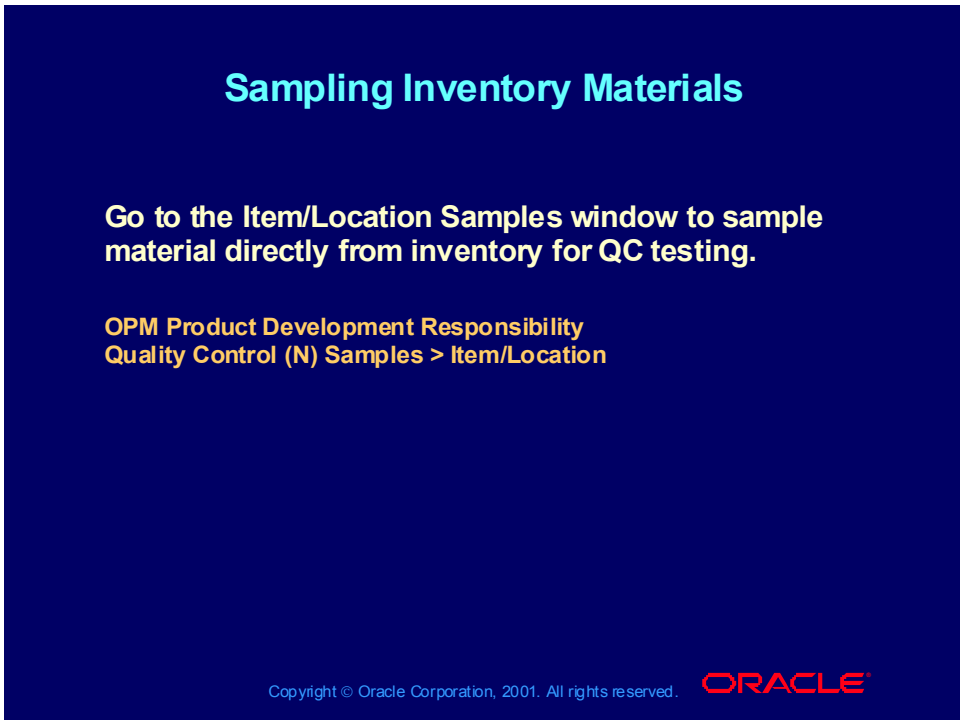

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > QC Sampling > Sampling Materials From Inventory

… > Sampling Materials From Inventory Procedure

… > Item/Location Samples Field Reference

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Practice 8

Sampling Inventory Materials

You need to take item samples from a location. Set up sample details to sample from the ice cream lot for which you set up item and location specifications in practice 5.

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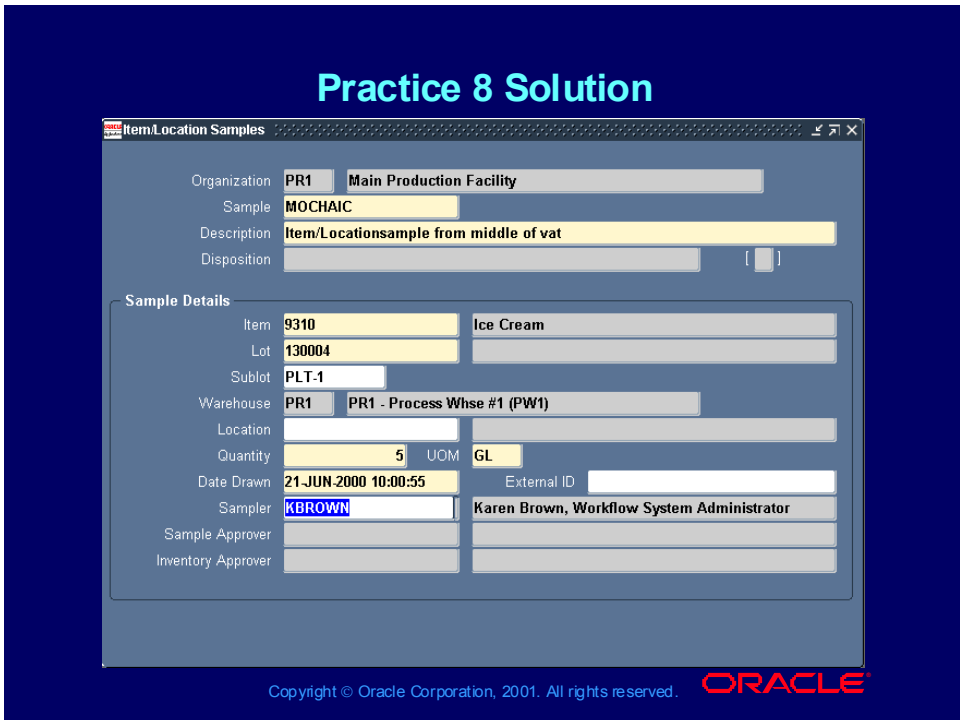

Practice 8 Solution

Entering Data for Sampling Inventory Materials

1. Open the Item/Location Samples window:

   (N) OPM Product Development > Quality Control > Samples > Item/Location

2. Enter a sample name and description for your sample.

   Note: If you default organization is not correct, open the Session Parameters window and select EOPC from the Organization list of values.

   (N) OPM Product Development > Quality Control > Other > Session Parameters

3. In the Samples Details region, enter the following information:
   - Item: `9310`
   - Lot: `100B`
   - Sublot: `1B`
   - Warehouse: `200A`
   - Location: `QC`
   - Quantity: `5`
   - UOM: `GAL`
   - Date Drawn: Current date
   - User: Your student identification

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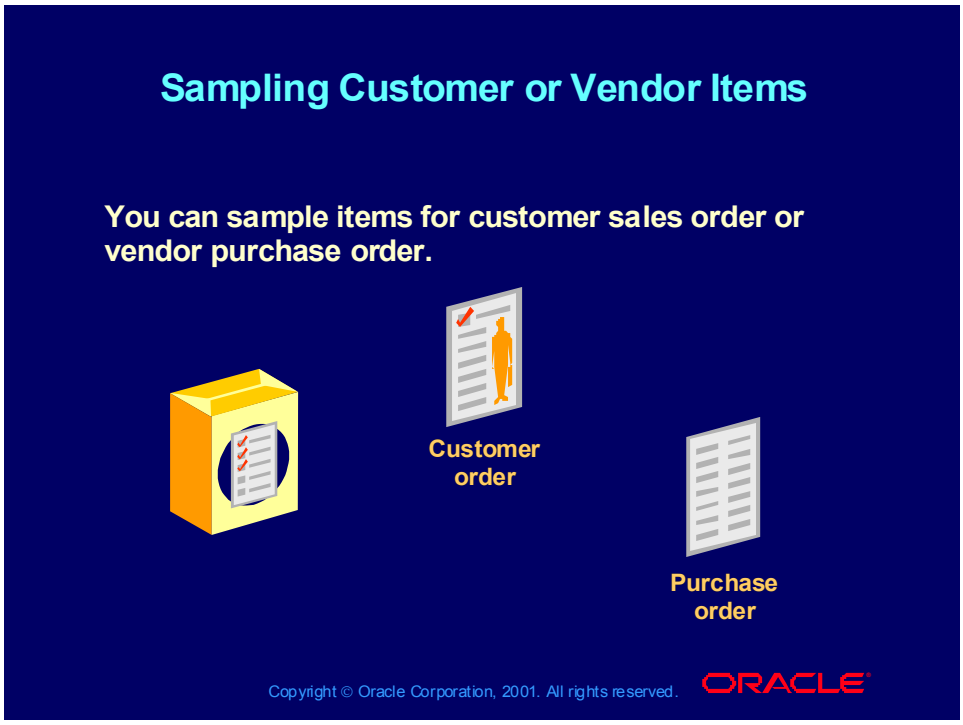
Sampling Customer or Vendor Items



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Setting Up Customer or Vendor Samples

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > QC Sampling > Sampling Customer / Vendor Materials

… > Sampling Customer/Vendor Materials Procedure

… > Customer/Vendor Samples Field Reference

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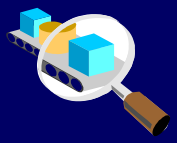
Sampling Production Batches

Sampling Production Batches

You can sample material from a production batch.



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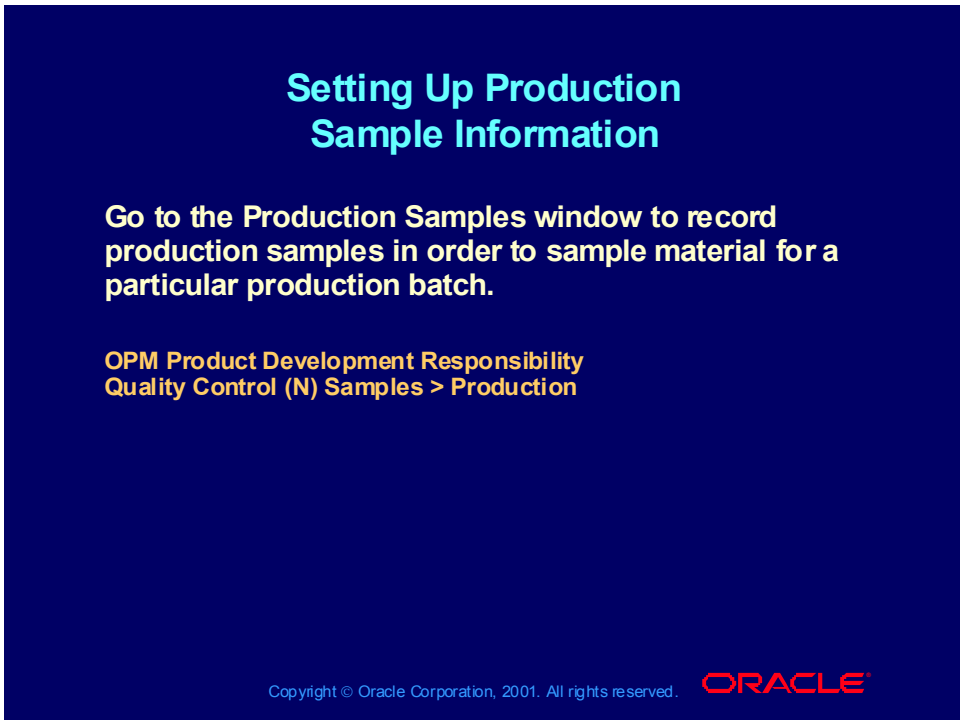
Setting Up Production Sample Information



(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > QC Sampling > Sampling Production Materials

… > Sampling Production Materials Procedure

… > Production Samples Field Reference

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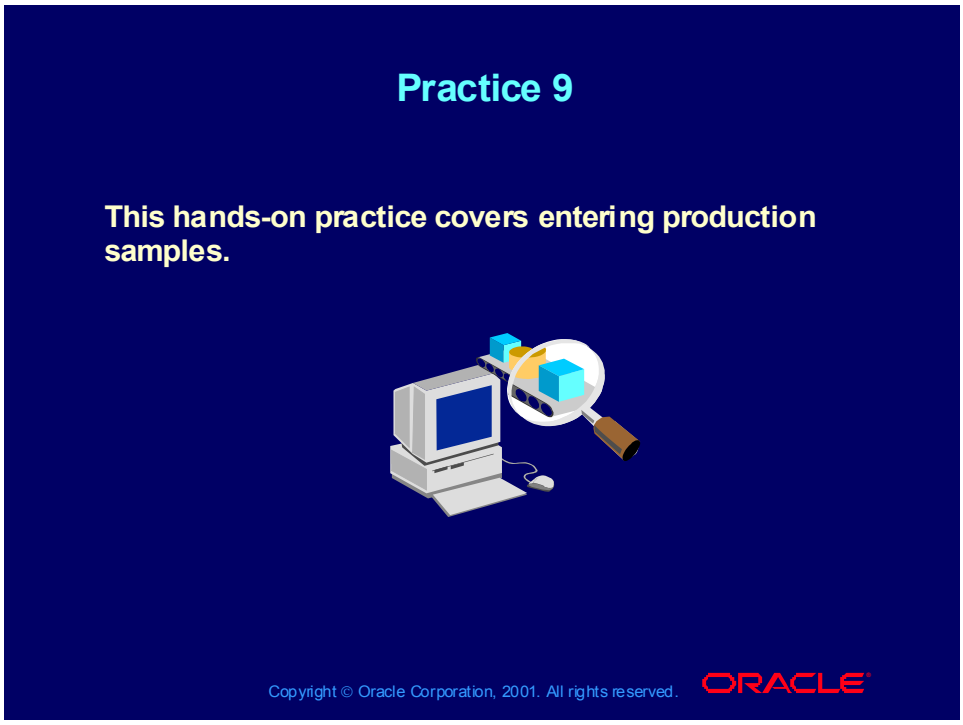

Practice 9

Setting Up Production Sample Information

Now you need to sample material from a particular production batch, recording the quantity sampled and the date and time the sample was drawn.

- Batch: 000012
- Formula Number: CM-FORM1
- Operation: 1-Test
- Item: CM111A

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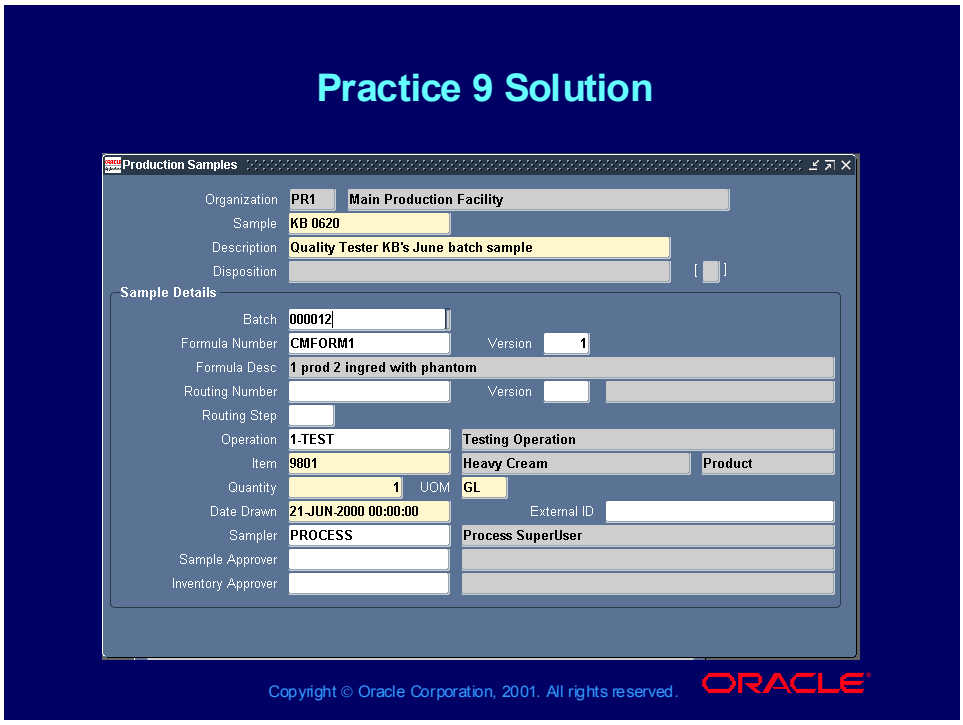

Practice 9 Solutions

Setting Up Production Sample Information

1. Open the Production Samples window:

   (N) OPM Product Development > Quality Control > Samples > Production
2. Enter a sample name *XX-MMDD* where *XX* is your student number, *MM* is the current month, and *DD* is the current day.
3. Enter the appropriate data in the Sample Details region.
4. Save your work.

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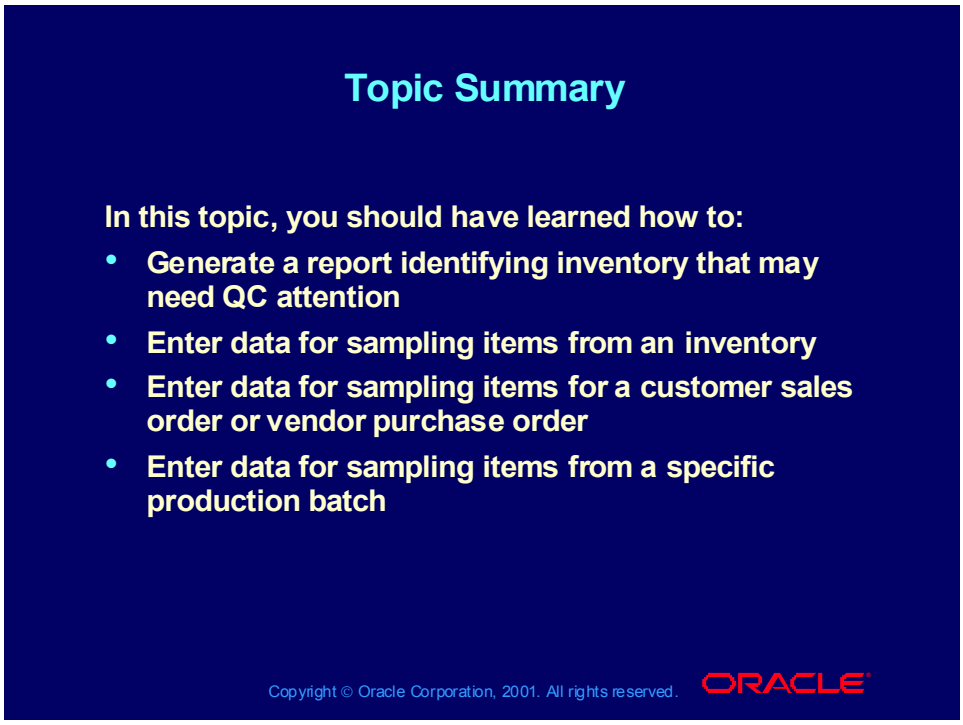

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Agenda

Agenda

- Establishing OPM Quality Parameters
- Managing Quality Control Sampling
- Recording Quality Control Results
- Executing Quality Management Reports and Inquiries
- Describing Quality Sample Workflow

Oracle Process Manufacturing
Quality Management

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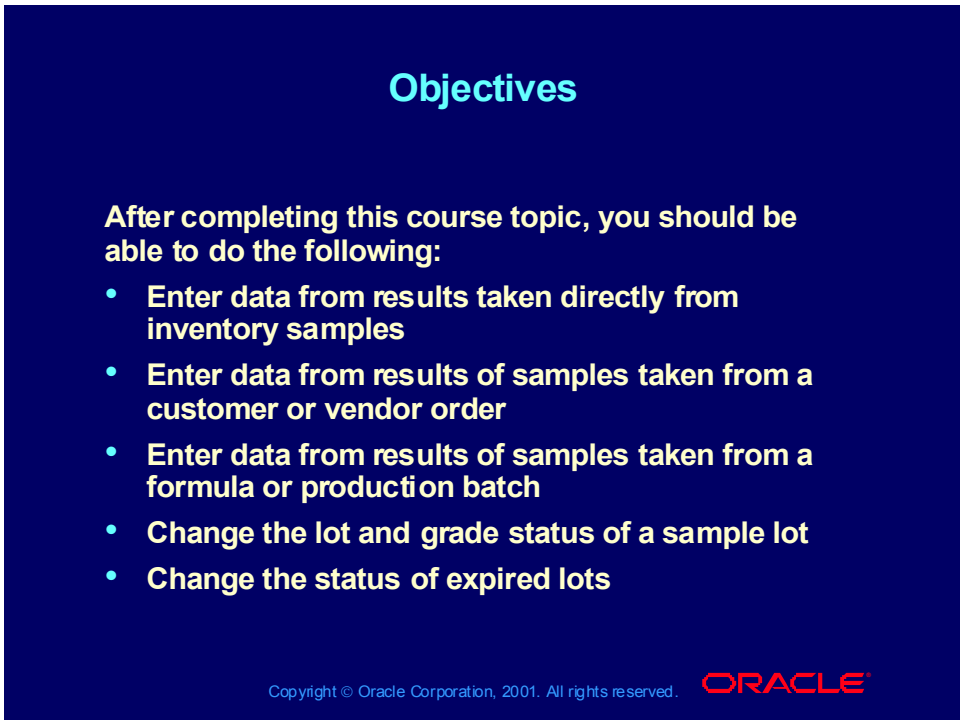

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Overview

You can enter results from samples into OPM Quality Management.

Sample results from:

- Inventory
- Customer or vendor order
- Formula or production batch

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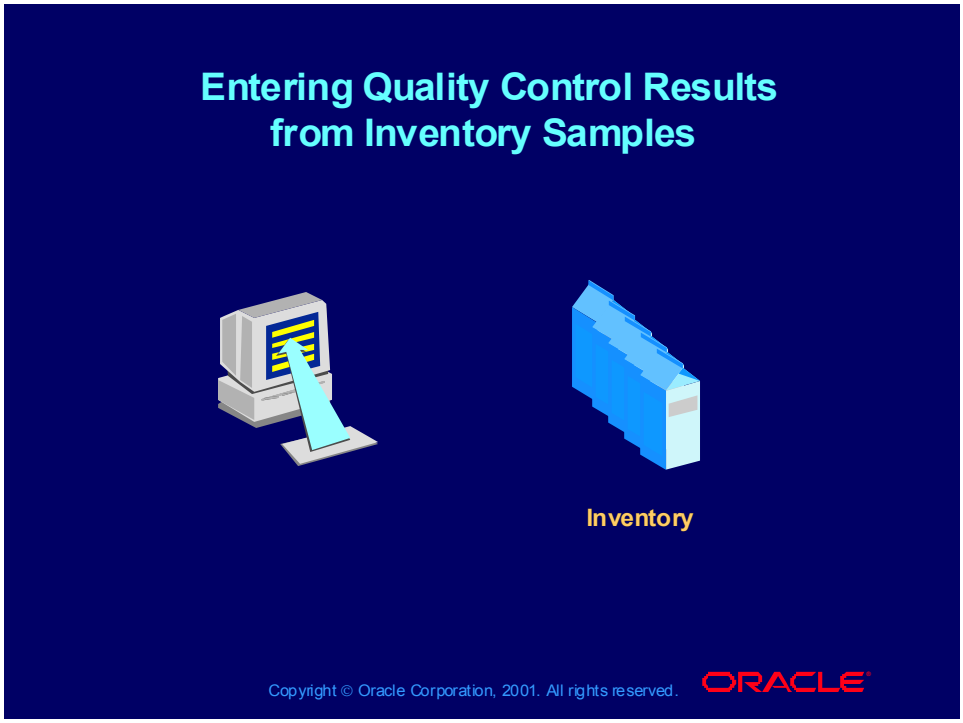
Entering Quality Control Results from Inventory Samples



Entering Quality Control Results from Inventory Samples

If you reject the material, change the inventory status in order to prevent it from being sold or used for production. This is accomplished in the OPM Inventory Module application.

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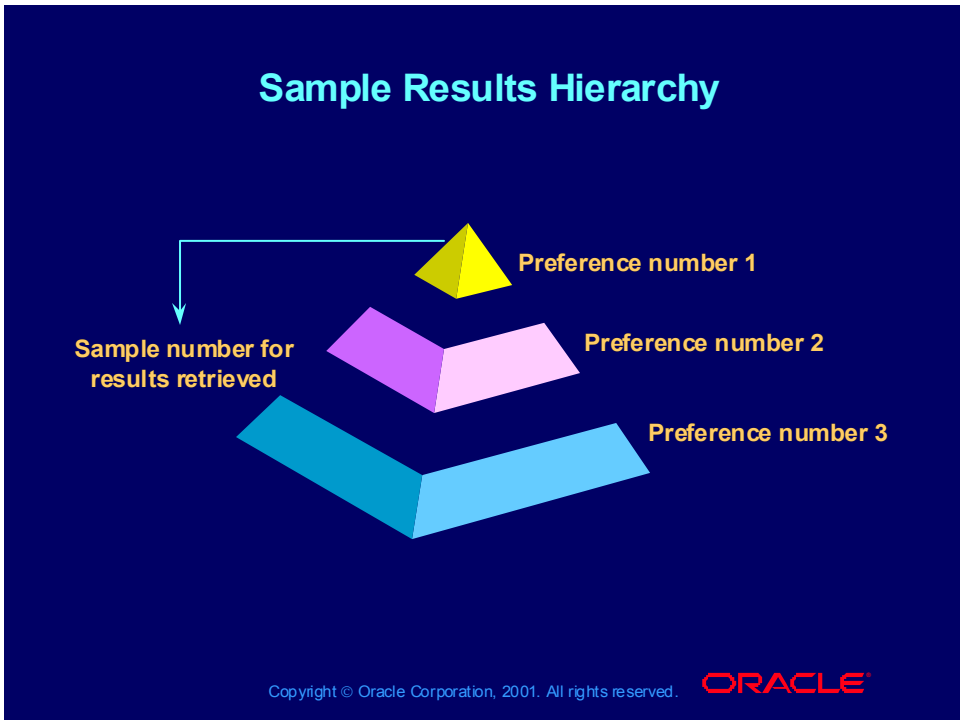

Sample Results Hierarchy

The sample number is used to retrieve the assay test specifications you defined for the material. The specification criteria that most closely match the sample criteria appear in the Results window. (Specifications must be created before the sample.)

If there is more than one specification with different preference numbers, the specification with the highest preference number created before the sample is retrieved. This specification retrieval hierarchy is true for all three categories of QC results.

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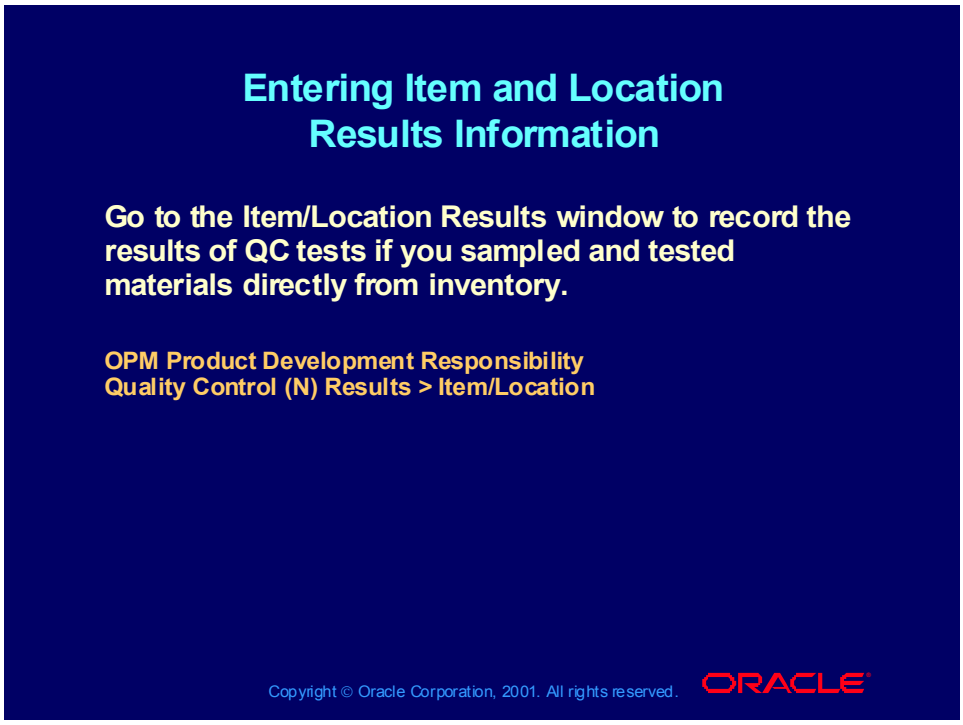
Entering Item and Location Results Information



(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Recording QC Results > Entering Item / Location Results

… > Entering Item/Location Results Procedure

… > Item/Location Results Field Reference

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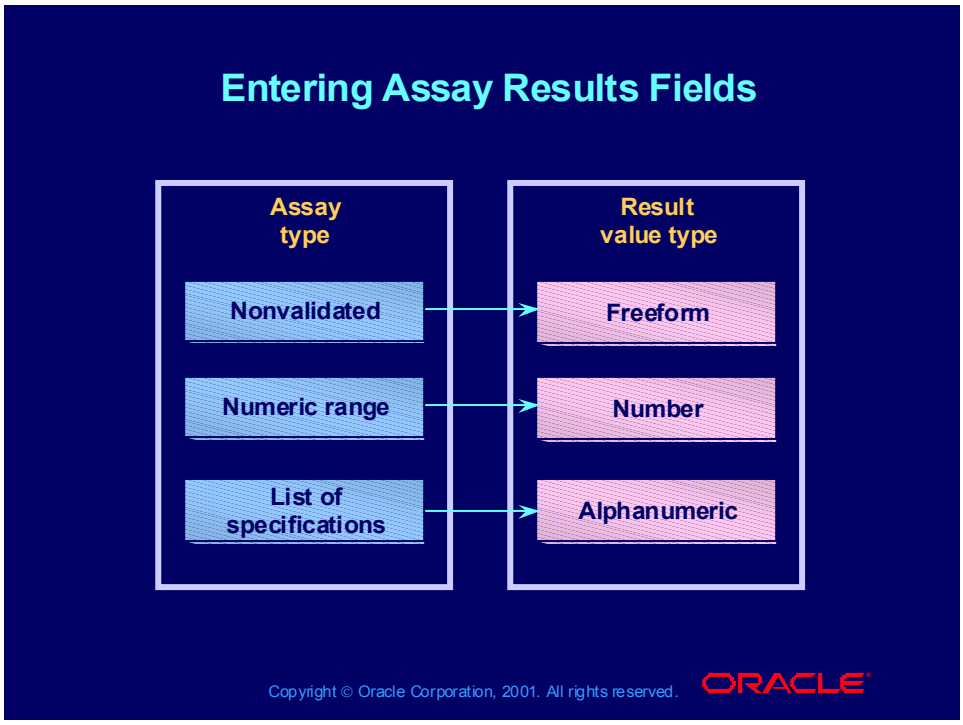
Entering Assay Results Fields



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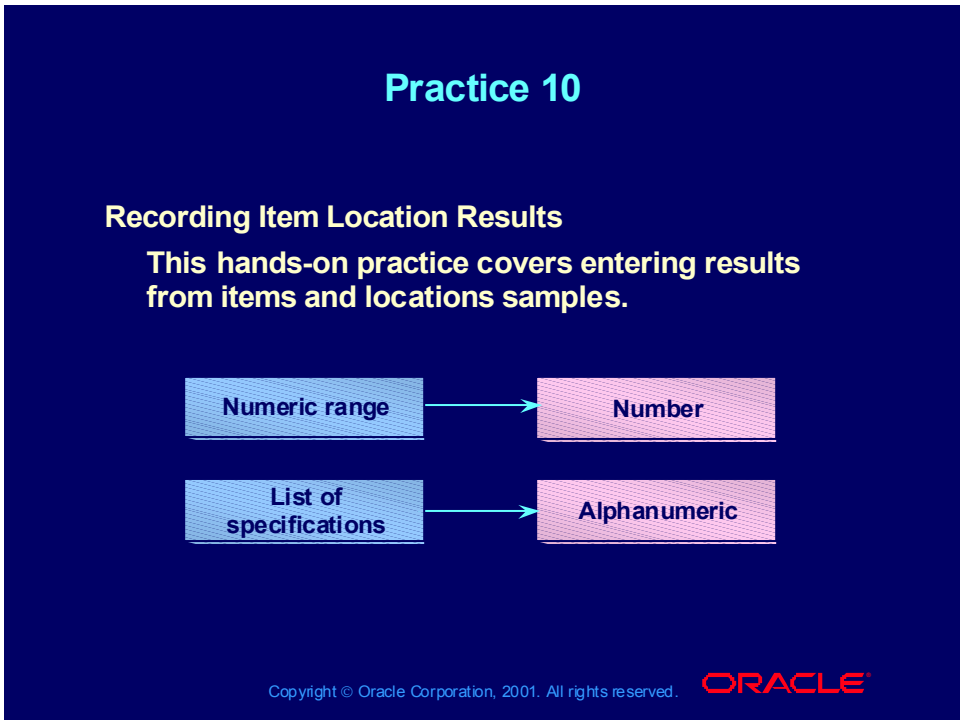

Practice 10

Recording Item Location Results

The sample you set up in practice 8 is taken by the QC group. You need to record their sample results and make any necessary status or grade adjustments.

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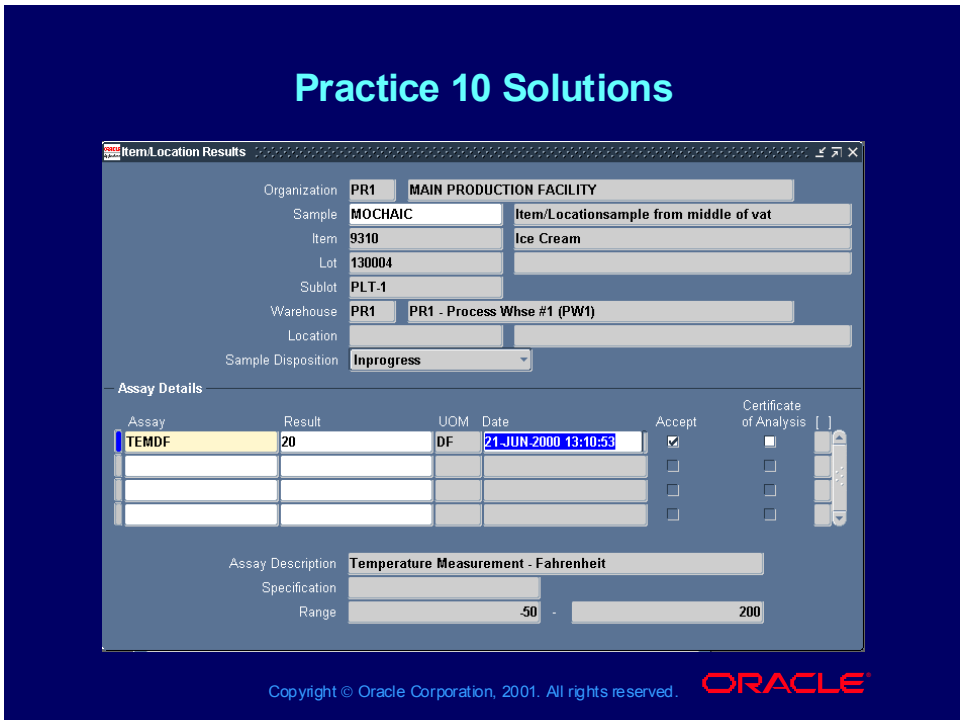

Practice 10 Solutions

Recording Item Location Results

1. Open the Item/Location Results window:

   (N) OPM Product Development > Quality Control > Results > Item/Location
2. Enter the sample name you set up in practice 8. Press [Tab] to populate the data in the top half of the window.
3. In the Assay Details region, enter the following:
   - Select the TEMDF assay from the list of values.
   - Enter a temperature result in Fahrenheit degrees.
   - Accept the default date if appropriate for your test.
   - Select the Accept check box if the temperature is in the acceptable range for your QC.
4. Save your work.

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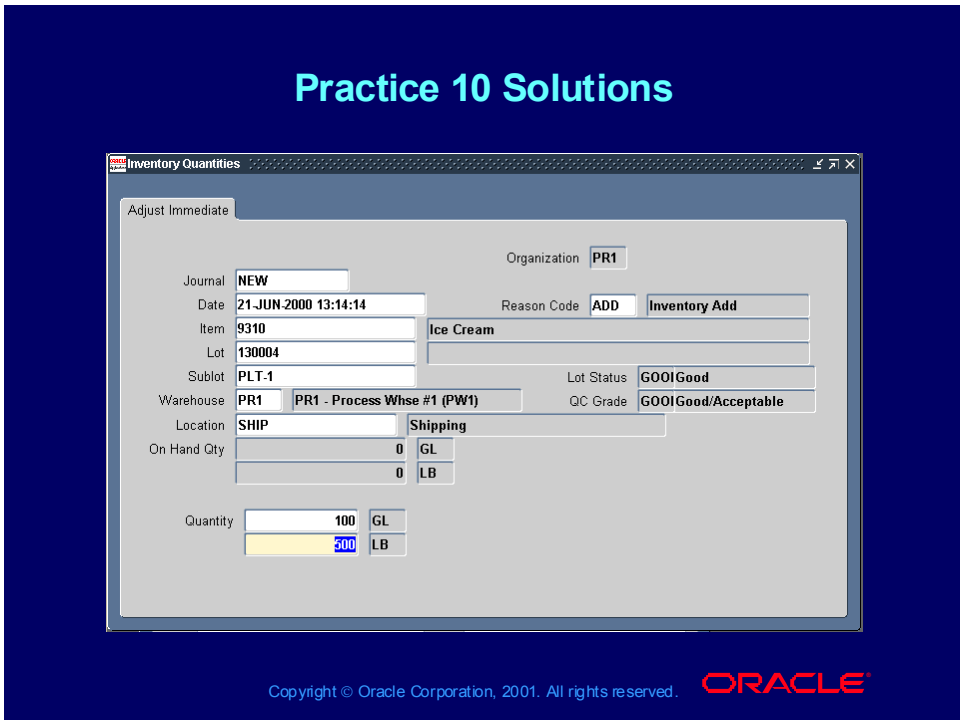

Practice 10 Solutions (continued)

Recording Item Location Results (continued)

5. At this point, you can adjust the status or grade. Open the Inventory Quantities window:

   (N) OPM Inventory > Inventory Control > Quantities

6. If you want to prevent the lot from which the sample was taken from being sold or used for production, edit the lot status or QC grade.

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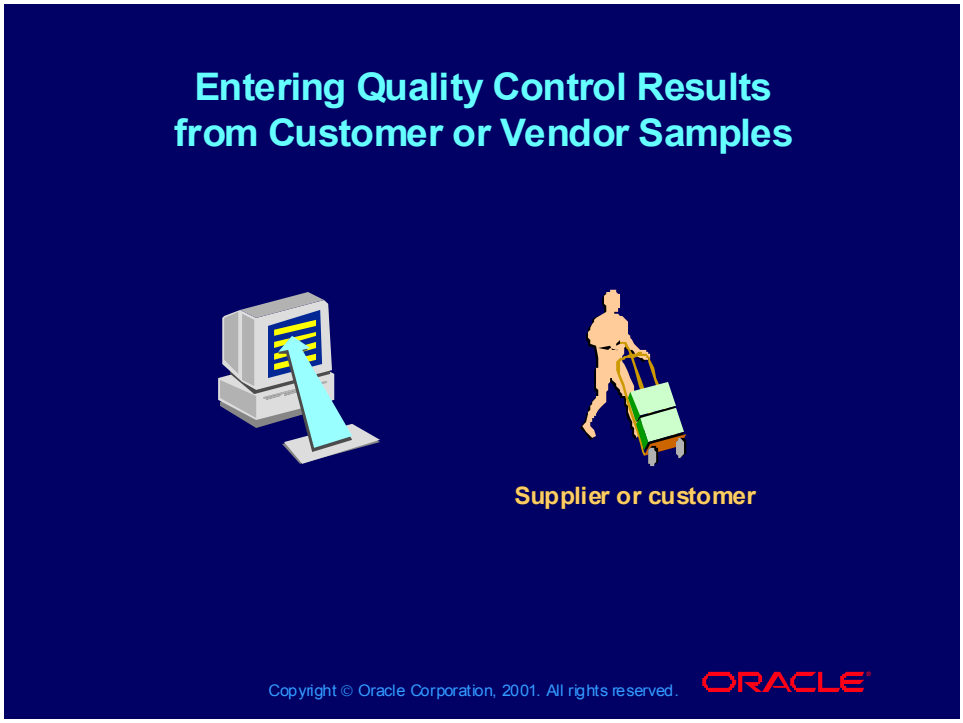
Entering Quality Control Results from Customer or Vendor Samples



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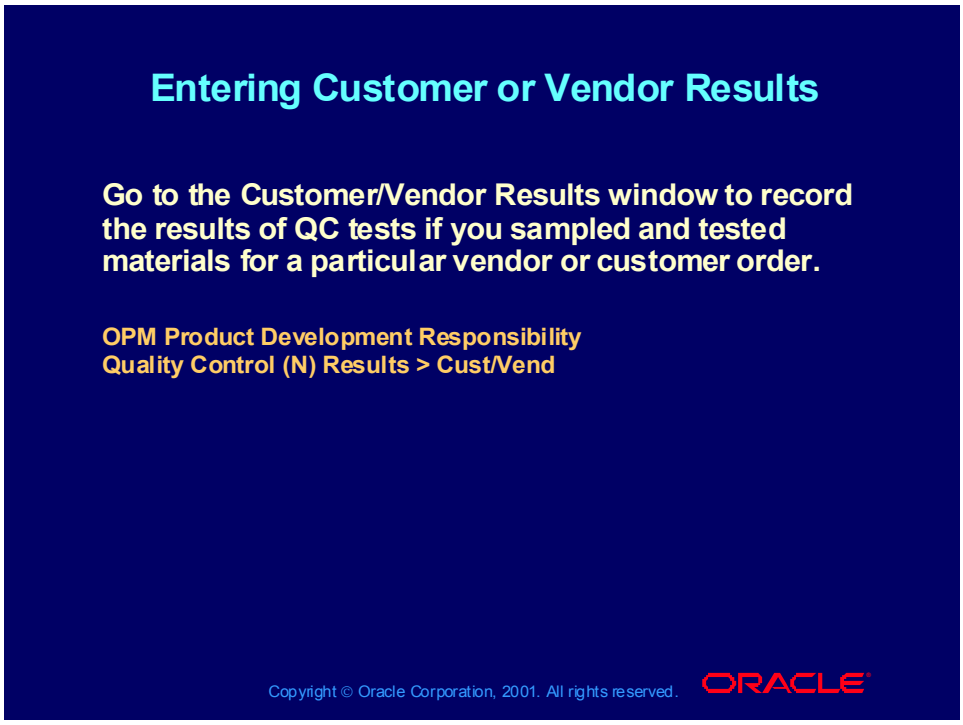

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Recording QC Results > Entering Customer/Vendor Results

… > Entering Customer/Vendor Results Procedure

… > Customer/Vendor Results Field Reference

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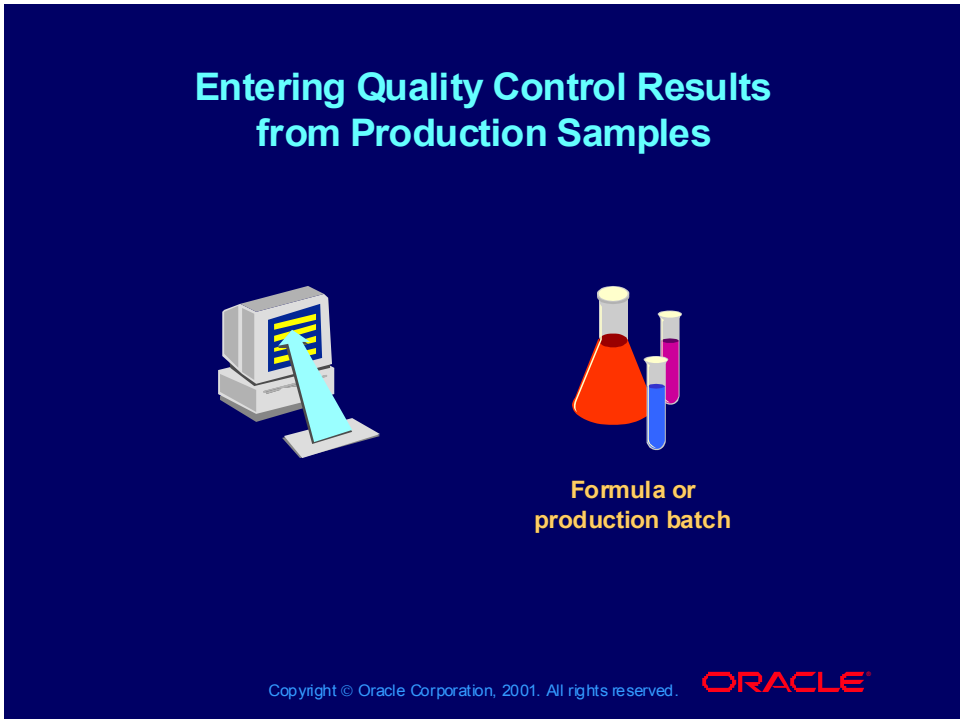
Entering Quality Control Results from Production Samples



Entering Quality Control Results from Production Samples

When you enter results, the specifications you defined for the material are retrieved automatically from the Oracle Process Manufacturing database. For each assay, you enter the result of QC tests, the date of the test, and whether to accept or reject the material.

Remember, if you reject material, you must manually change the inventory status to prevent it from being sold or used for production.

Note: For the hierarchy of specification, see the "Recording Quality Control Results" section of the OPM Quality Management User's Guide, Release 11*i*.

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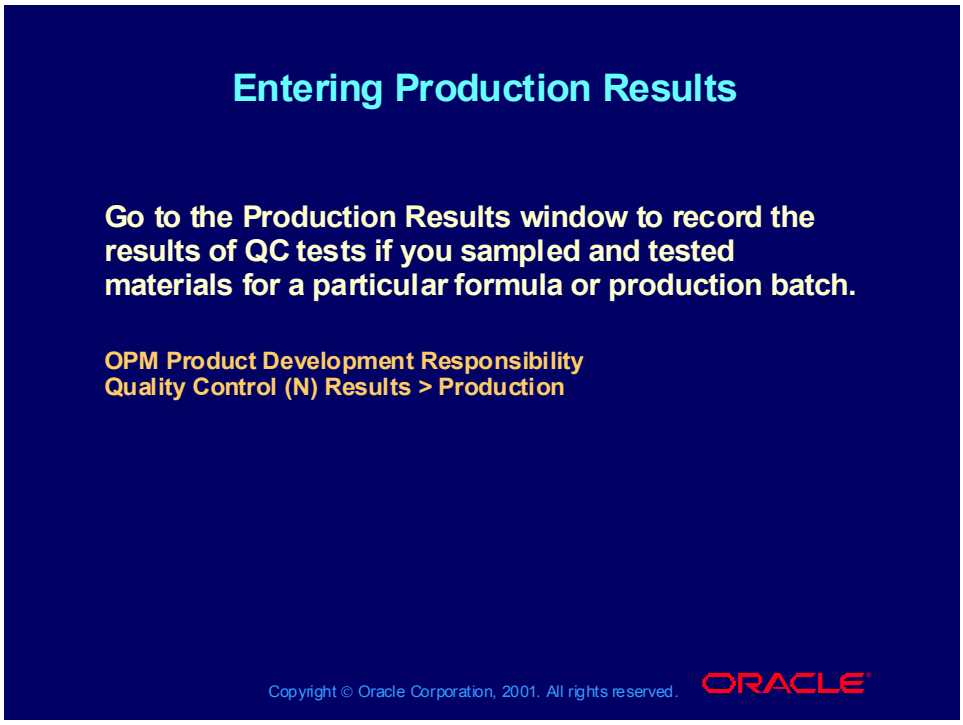
Entering Production Results



(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Recording QC Results > Entering Production Results

… > Entering Production Results Procedure

… > Production Results Field Reference

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Practice 11

Recording Vendor Results

To practice recording vendor results, you need to set up a vendor sample from the vendor specifications set up in practice 5. In the Customer/Vendor Samples window, enter the KT-LIST global assay in the Assay Details region, and enter FRESH as the acceptable result.

Then record vendor results with results other than FRESH, and do not accept the sample.

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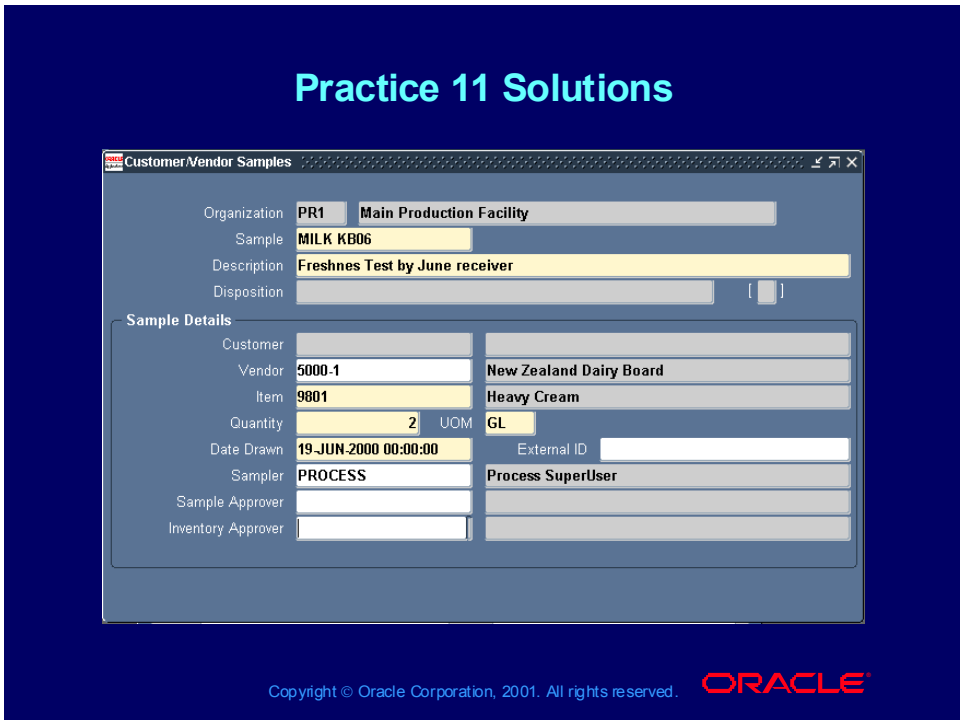

Practice 11 Solutions

Setting Up a Vendor Sample

1. Open the Customer/Vendor Samples window:
   (N) OPM Product Development > Quality Control > Samples > Cust/Vend
2. Enter the following data:
   - Sample: `MILK-`*`XXMM`*, where *XX* is your terminal number, and *MM* is the
     current month.
   - Vendor: `5000-1 New Zealand Dairy Board`
   - Item: `9801`
   - Quantity: `2`
   - UOM: `GAL`
   - Date Drawn: Accept the defaults in the Date Drawn and User fields.
3. Save your work.

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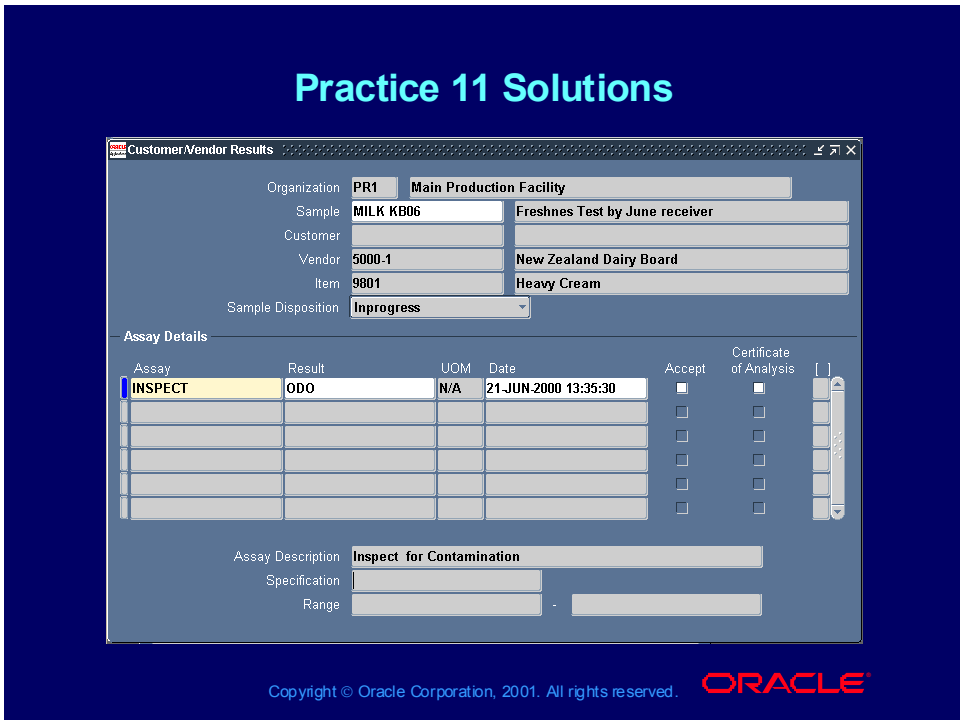

Practice 11 Solutions (continued)

Recording Vendor Sample Results

1. Open the Customer/Vendor Results window:

   (N) OPM Product Development > Quality Control > Results > Cust/Vend
2. Enter the sample name `MILK-`*`XXMM`*. Press [Tab] to populate the data in the top half of the window.
3. In the Assay Details region, enter the following:
   - Select the INSPECT assay from the list of values.
   - Enter a result.
   - Accept the default date if appropriate for your test.
   - Do not select the Accept check box.
4. Save your work.

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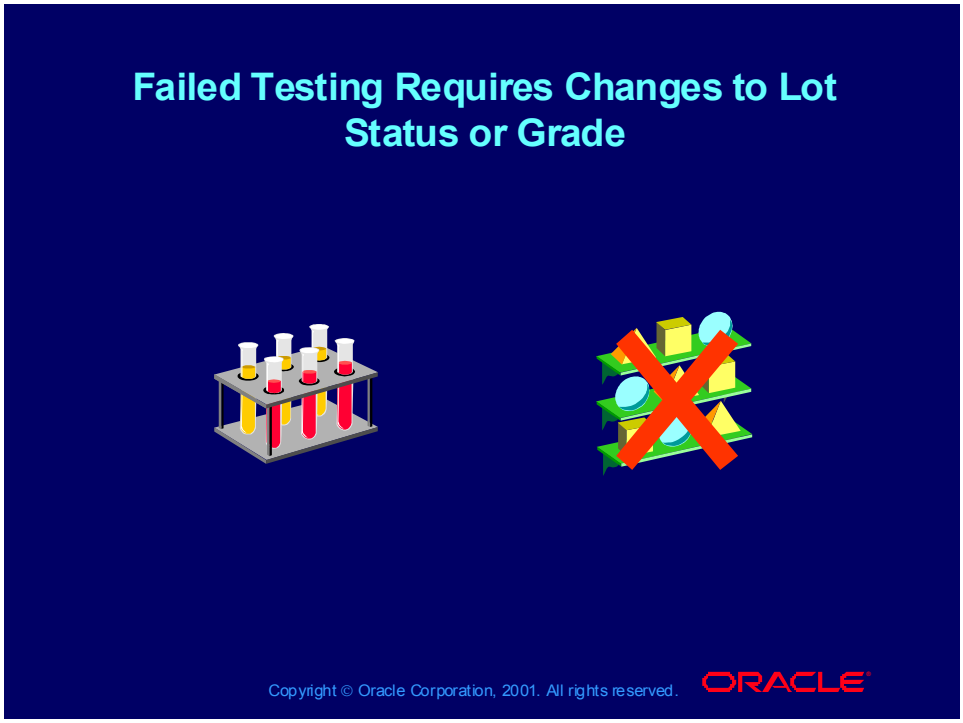
Failed Testing Requires Changes to Lot Status or Grade



Inventory Changes

Once it has been determined that a sample does not meet QC specifications or has failed QC tests, you may need to change either the lot status or the QC grade of the sample lot. You can select one of three options for changing either the lot status or the QC grade.

This does not automatically prevent the lot from which the sample was taken from being sold or used for production. If you reject material, you must manually change the inventory status to prevent it from being sold or used for production.

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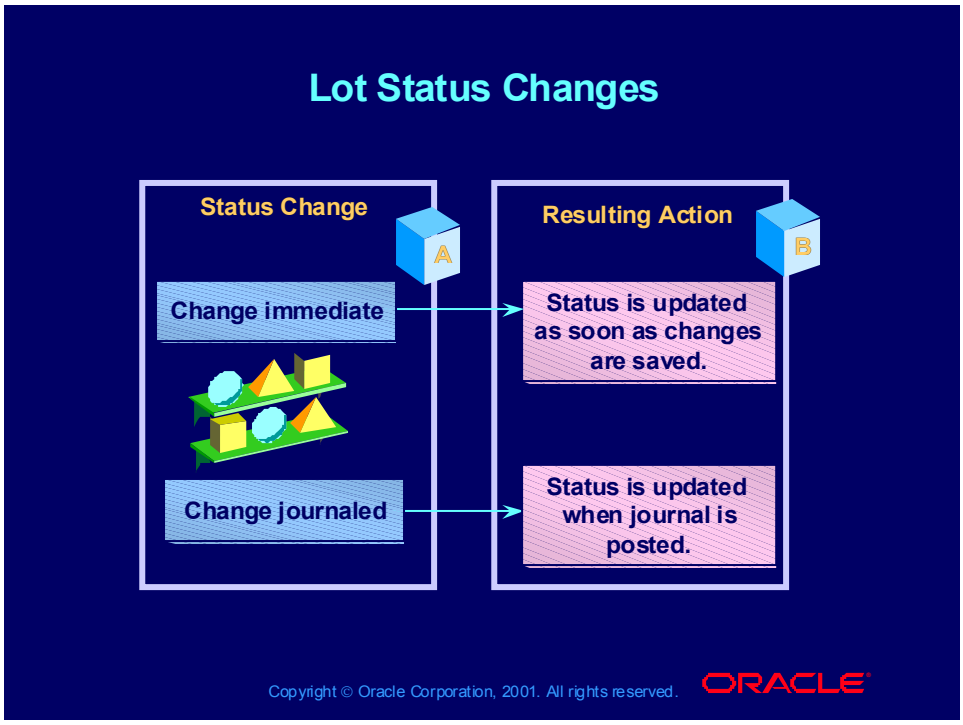
Lot Status Changes



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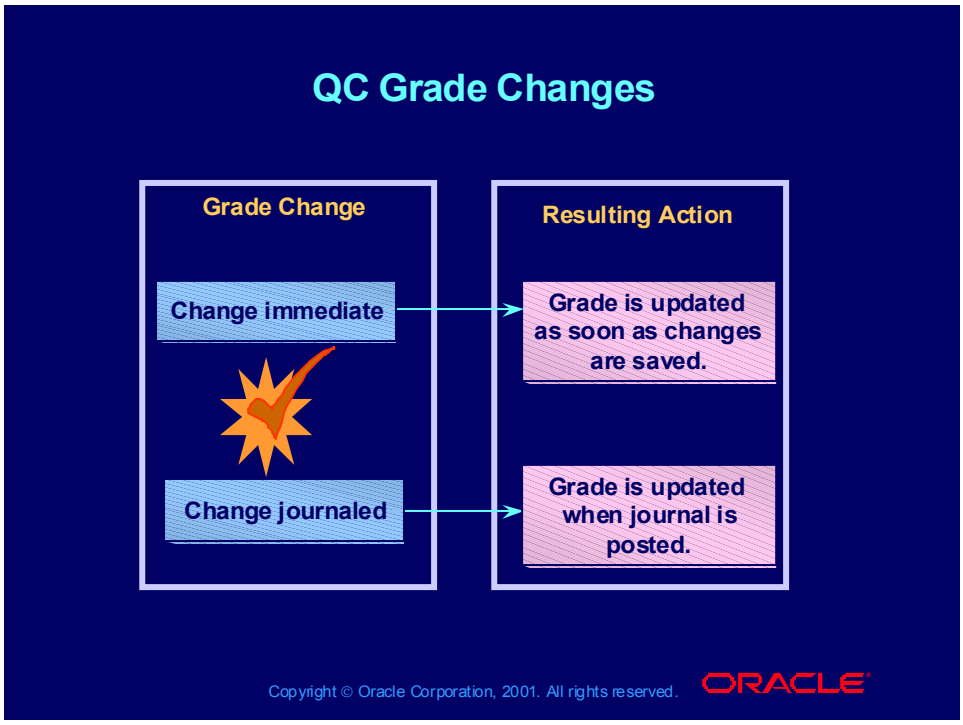
QC Grade Changes



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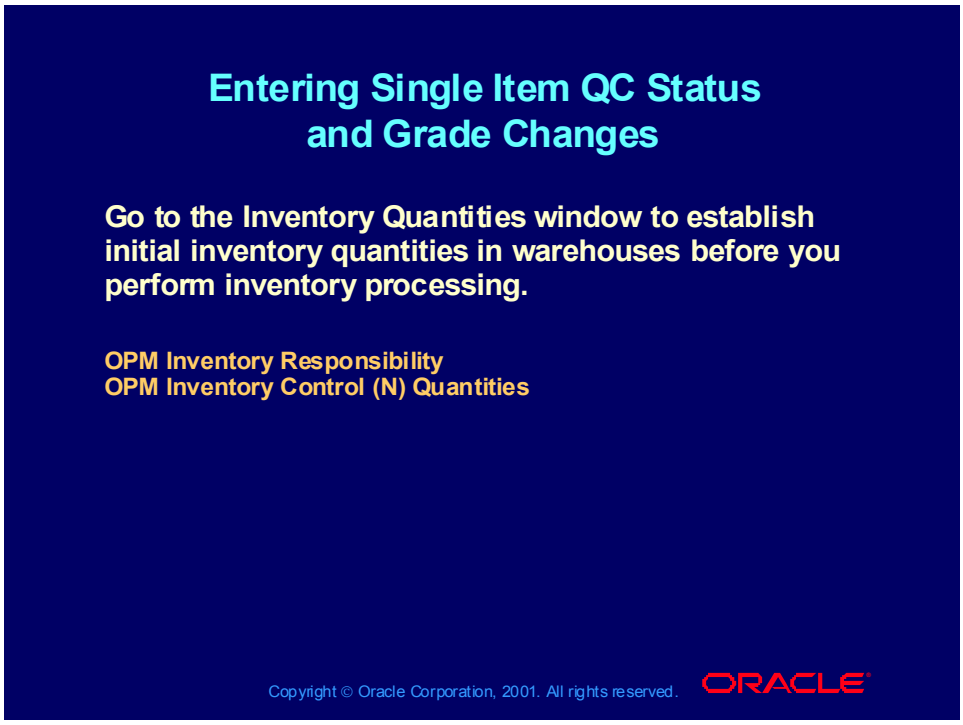
Entering Single Item QC Status and Grade Changes



(Help) OPM Inventory > OPM Inventory Management User's Guide > Processing Inventory Transactions > Using the Inventory Quantities Window

… > Using the Inventory Quantities Window Procedure

… > Inventory Quantities Field References

Note: You must define document ordering parameters prior to performing status and grade changes.

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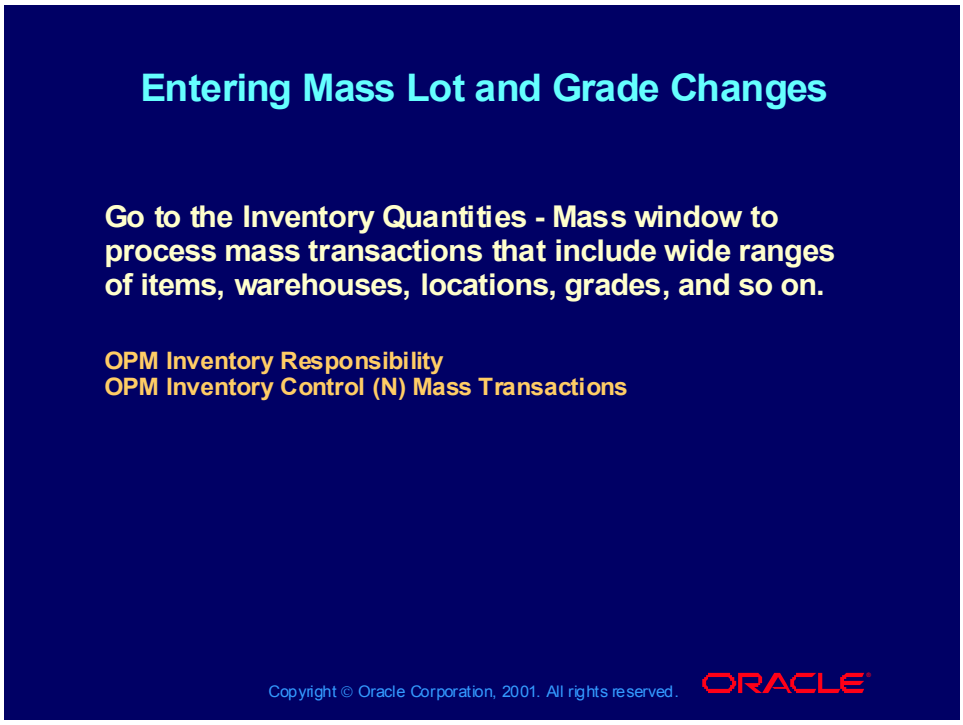

(Help) OPM Inventory > OPM Inventory Management User's Guide > Processing Inventory Transactions > Processing Mass Transactions

… > Processing Mass Transactions Procedure

… > Inventory Quantities - Mass Field References

… > Inventory Quantities - Mass Additional Setup in Inventory Management

Description of Mass Lot and Grade Changes

Mass Status Immediate:

- The lot status for one or many items in all, one, or a range of lots, sublots, warehouses, locations or grades can be changed.
- Lot statuses are updated as soon as changes are saved.

Mass Grade Immediate:

- The grade for one or many items in all, one, or a range of lots, sublots, warehouses, or locations can be changed.
- The grades are updated as soon as the changes are saved.

Grade is a characteristic of an item lot, never a location. When you change the grade of an item lot, specifying the warehouse location of that lot does not assign a grade to the location.

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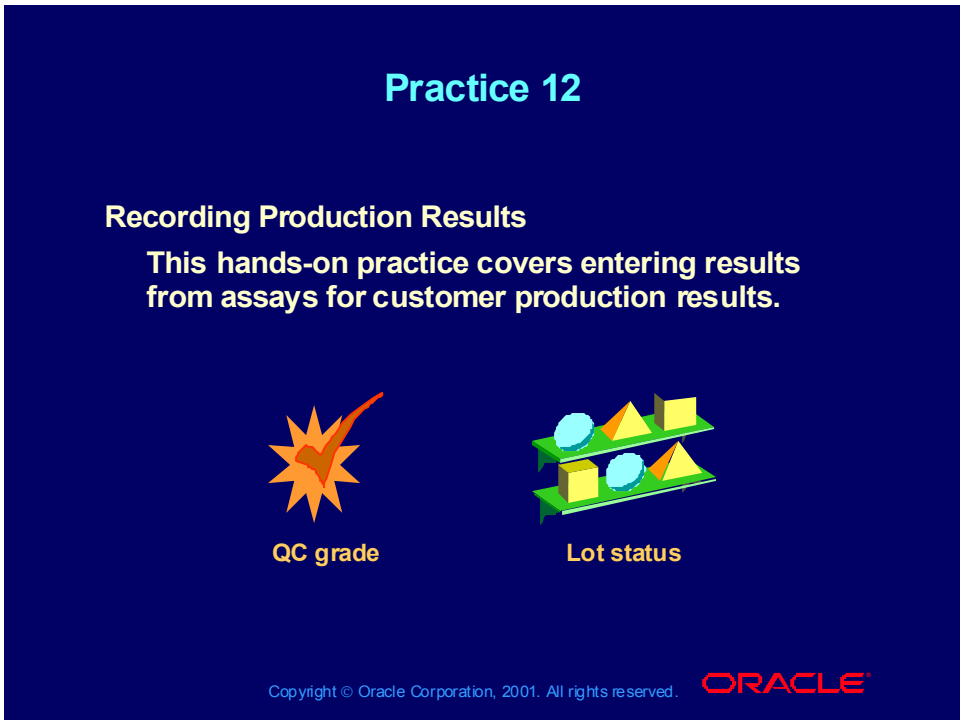

Practice 12

Recording Production Results

The production batch sample you set up in practice 9 is taken by the QC group. You need to record their sample results.

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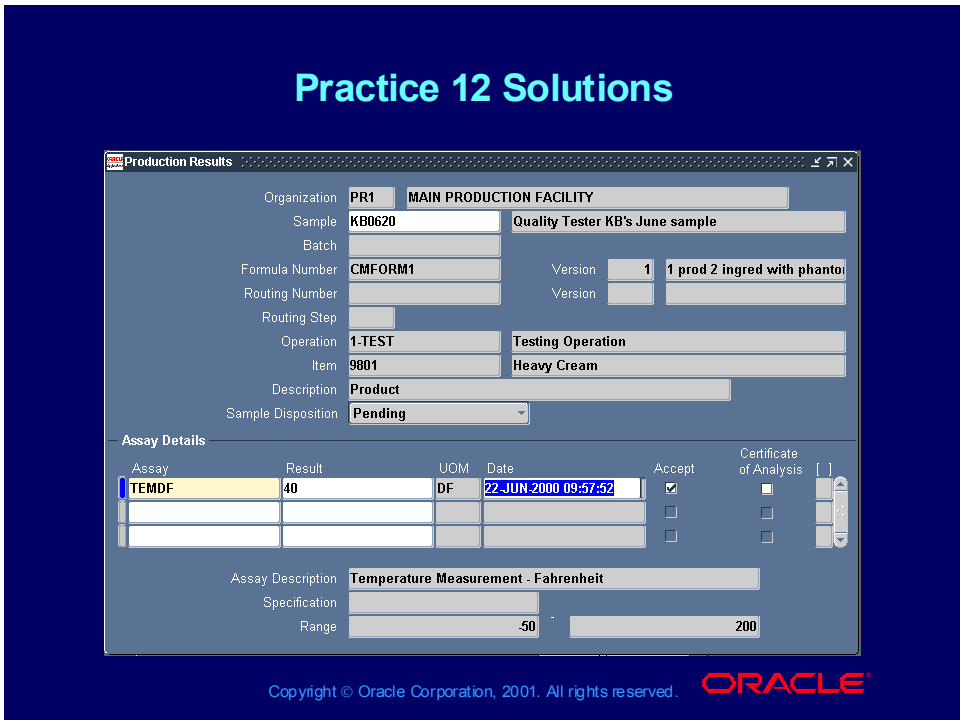

Practice 12 Solutions

Recording Production Results

1. Open the Production Results window:

   (N) OPM Product Development > Quality Control > Results > Production
2. Enter the sample name *XX-MMDD* that you set up in practice 9. Press [Tab] to populate the data in the top half of the window.
3. In the Assay Details region, enter the following:
   - Select an assay from the list of values.
   - Enter results that are within the acceptable specifications or ranges for the assay.
   - Select the Accept check box.
4. Save your work.

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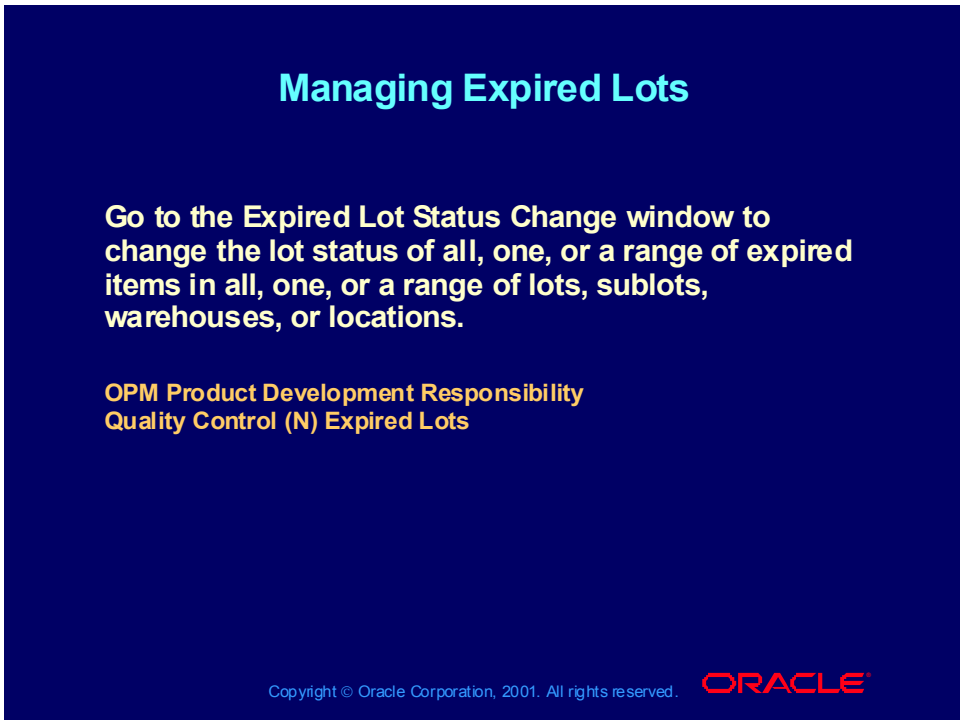

(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > Recording QC Results > Managing Expired Lots

… > Managing Expired Lots Procedure

… > Expired Lot Status Change Field References

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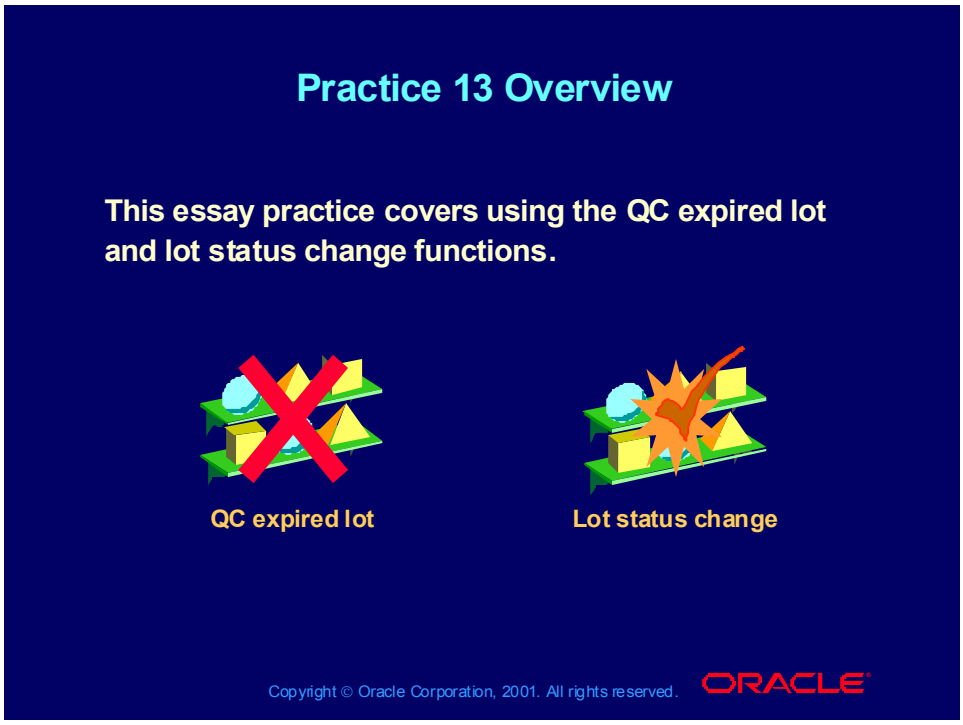

Practice 13

Using the Expired Lot Functionality

A paint manufacturer wants to devise an automated method for retesting and regrading finished goods inventory within a warehouse. Upon expiration of a particular lot, the paint may be brought back into inventory.

When the material is put back into inventory, it is tagged to notify warehouse personnel and customer service representatives that it should be sold as quickly as possible and picked before other available inventory.

Describe how the QC expired lot functionality might be used to automate the daily inventory evaluation of expired lots.

How would you suggest that the inventory be tagged in OPM to provide visibility to warehouse personnel and customer service representative of lots that should be allocated first?

Using Dual UOM

A dairy manufacturer of ice cream receives fresh milk from local dairies on a daily basis. The whole milk is received in gallons at the dock and automatically piped into storage vats.

At the time of receipt from the local dairy, a QC sample is taken. The lab performs the necessary quality checks on the sample and determines the percent butterfat (%BF) received. Each lot of milk received has a different %BF to gallon relationship.

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Production consumes the milk for ice cream products based on its percent butterfat. Production evaluates the %BF of individual lots as the method for formulation. For example, a base ice cream recipe calls for a certain number of gallons of whole milk at 26%BF. If individual lots of whole milk in inventory range from 20%BF to 35%BF, the production foreperson has to plan production to consume the appropriate combination of these lots to result in a 26%BF mixture.

During the presales demonstrations of OPM, the client is told it can define whole milk in dual units of measure to capture both gallons and %BF.

1. Understanding the need for lot-specific visibility of gallons and %BF, describe how the client should define the item whole milk with respect to dual UOM.
2. Suggest the process for receiving milk that will:
   - Enable warehouse personnel to immediately receive the milk lot into inventory without waiting for QC to first calculate the gallon to %BF ratio.
   - Place the milk on hold until QC testing is complete.
   - Enable QC to record the actual lot-specific %BF of the received gallons.
   - Enable QC to release the lot to production for use.
   - Enable QC to assign the actual grade to the lot of the milk received.

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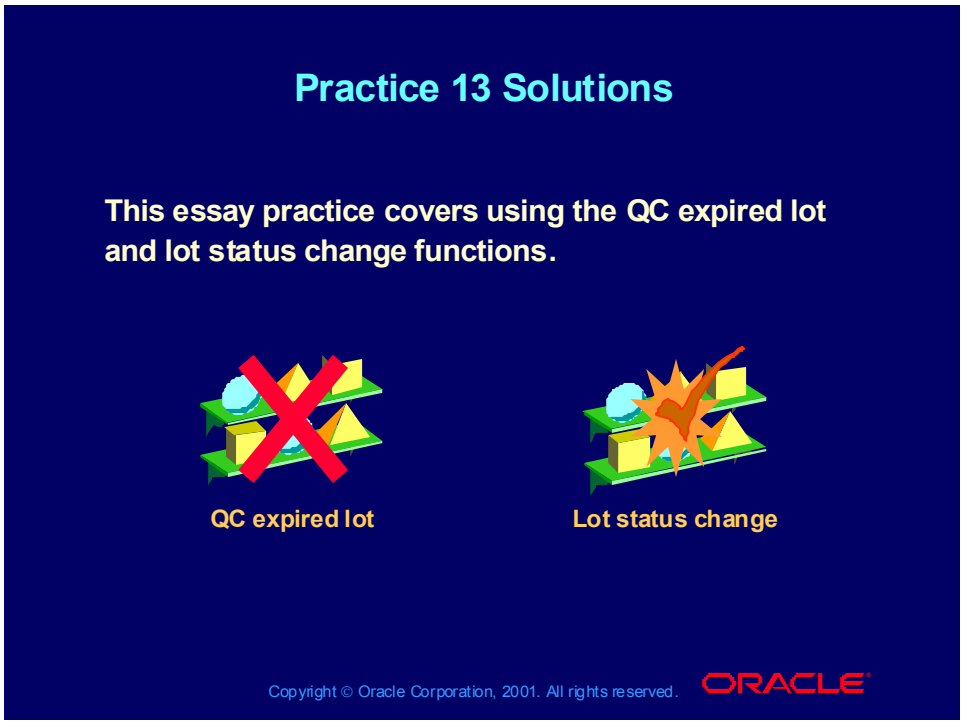

Practice 13 Solutions

Using the Expired Lot Functionality

1. By running the QC Expired Lots process for all items in a warehouse, you can automatically perform a status change of the expired lots to a Retest status without having to individually analyze each lot and perform a separate status change transaction for each.
2. A special grade code or lot status code can be assigned to the material so that you can identify it in an inventory item query. For customer service representatives, the grade code may be preferable since the inventory summary does not display lot status information.

Using Dual UOM

1. Define the item as follows:
   - Dual UOM: `2`
   - UOM1: `GAL` (Gallons)
   - UOM2:`%BF` (percent butterfat). Also, define the item specific conversion as a reasonable default, such as 1 GAL = .2%BF.

   The item could also be defined as Dual UOM 3, but the first option provides a default conversion to be displayed on screens during receiving, which can be beneficial.
2. The process for receiving milk is as follows:

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- Using the default conversion factor for GAL and %BF (or the %BF as stated on the bill of lading, if available), the milk can be received. QC can modify the conversion after testing is complete.
- The default lot status TEST should be entered in the Inventory Items window so that, upon receipt, each new lot of milk is placed on TEST status. TEST would make the lot unavailable for production.
- When QC determines the actual %BF, an adjustment to the existing lot quantity can be made to either the GL quantity or the %BF quantity to result in the appropriate amount.
- Once testing is complete, QC must perform a status change to transfer the lot from TEST status to a RELEASED status code (defined such that material is available for production).
- QC can perform a grade change transaction to change the lot (if necessary) from its default received grade to the actual grade.

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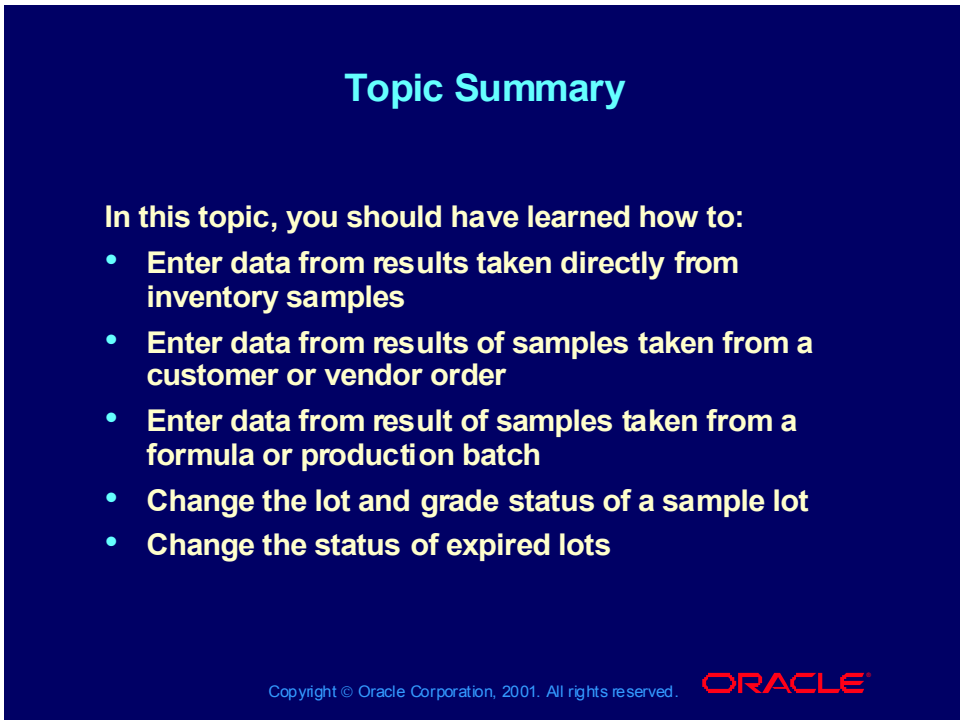

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Agenda

Agenda

- Establishing OPM Quality Parameters
- Managing Quality Control Sampling
- Recording Quality Control Results
- **Executing Quality Management Reports and Inquiries**
- Describing Quality Sample Workflow

Oracle Process Manufacturing
Quality Management

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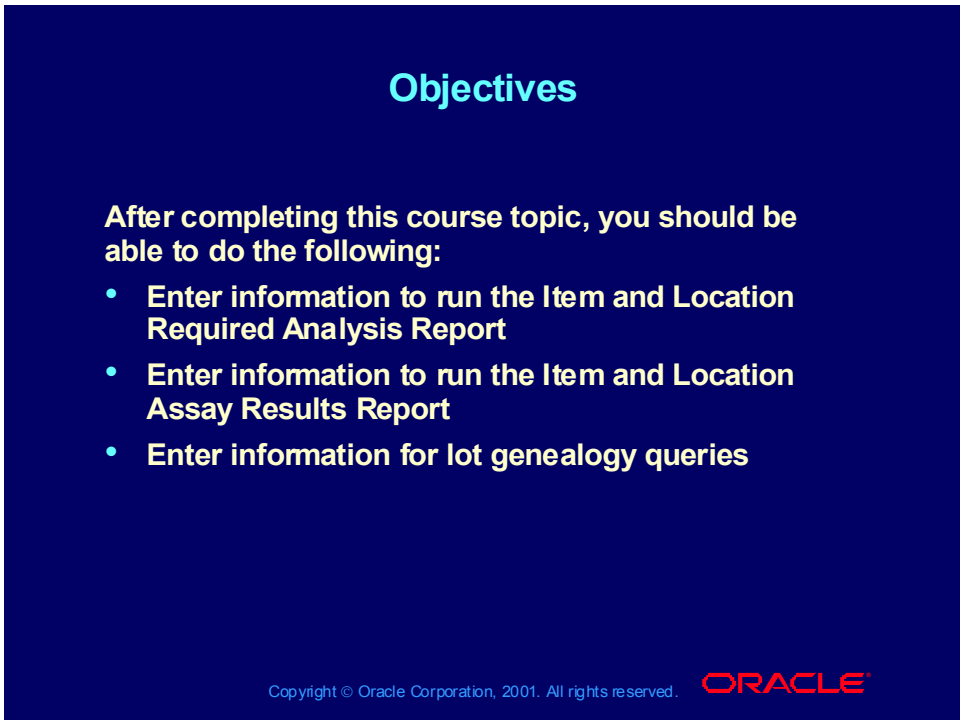

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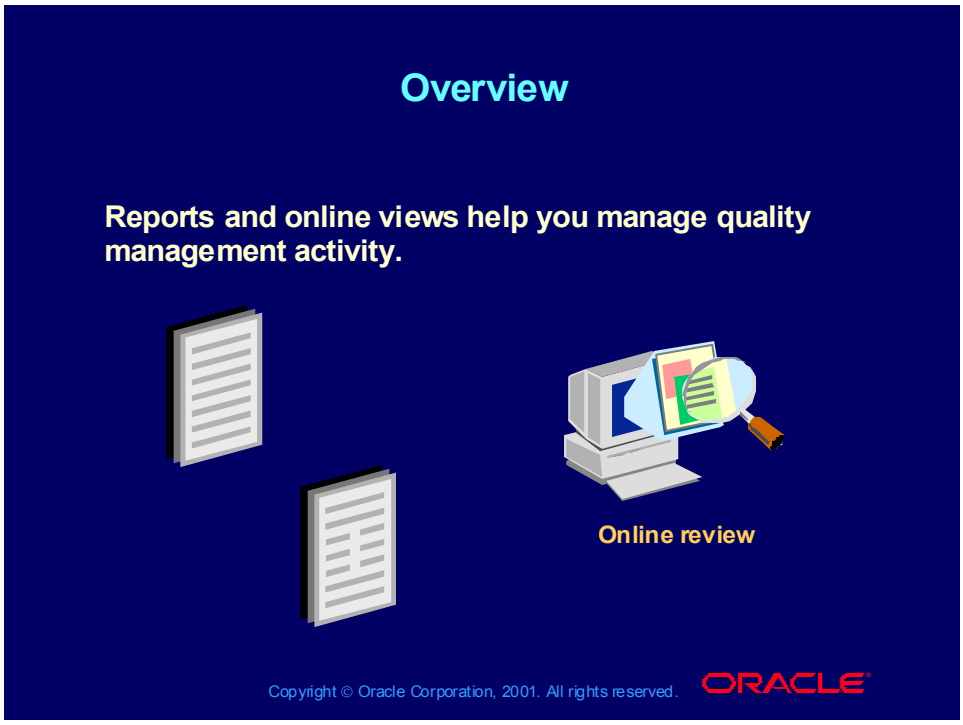

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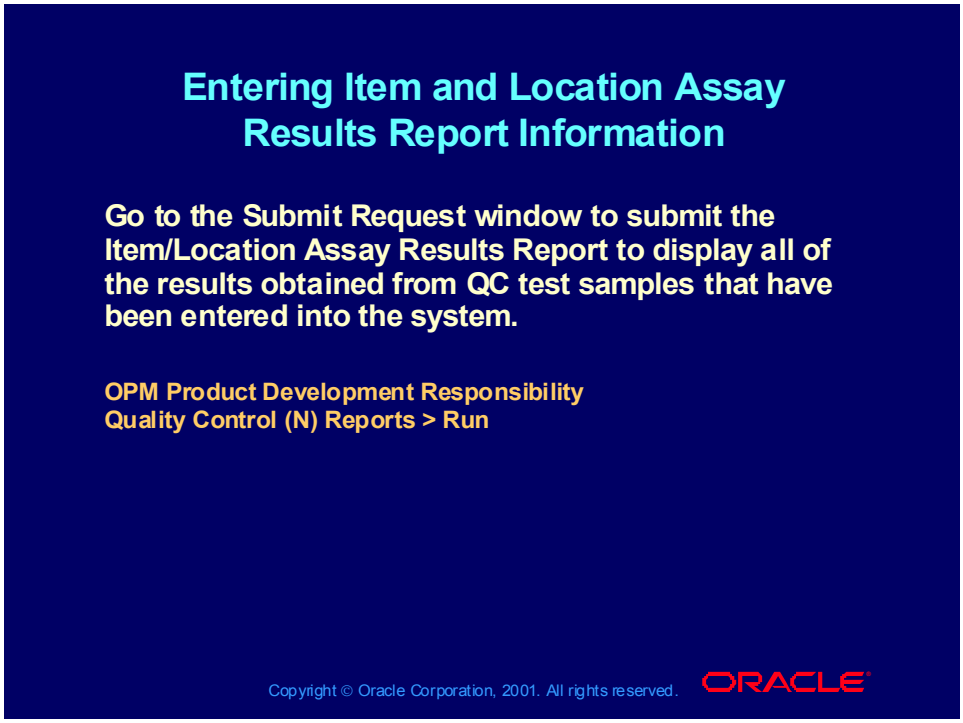
Entering Item and Location Assay Results Report Information



(Help) Oracle Manufacturing Applications > Oracle Process Applications > OPM Product Development > OPM Quality Management User's Guide > QC Reporting > Running the Item / Location Assay Results Report

… > Submitting the Report

… > Selected Report Parameters

… > Item/Location Assay Results Report Description

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Demonstration

This demonstration covers executing the Item and Location Assay Results Report.

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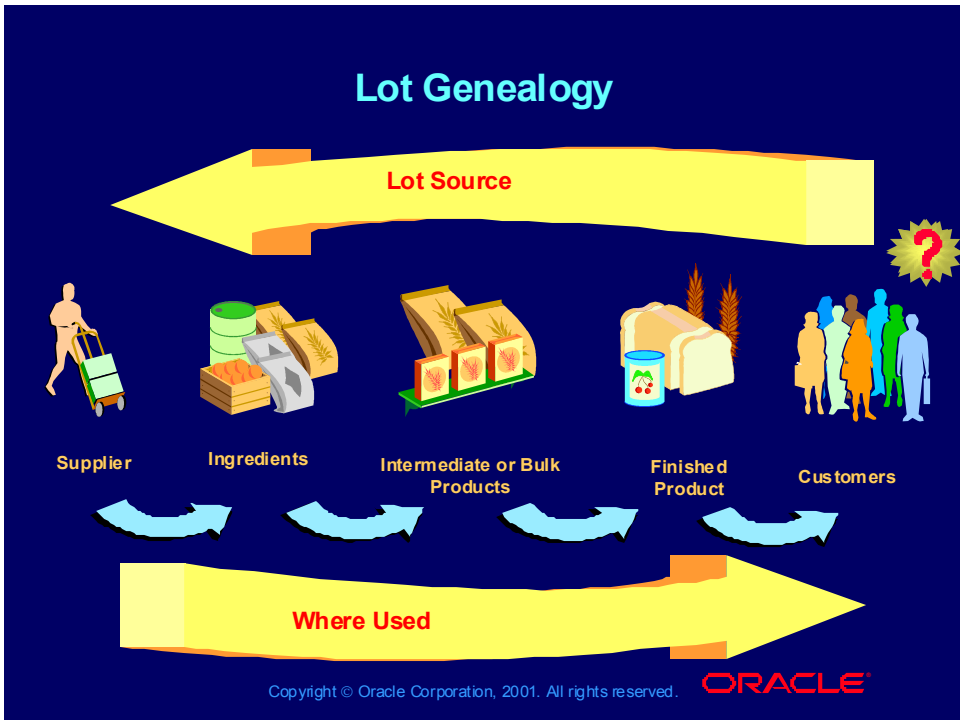

Lot Genealogy

The manufacturing process begins with the supplier who provides the raw materials needed for production. The production process creates intermediate, bulk, and eventually finished products which are then sold to customers.

When the customer experiences a problem with the quality of the finished product, the ingredients that were used in the intermediate, bulk, and finished product are determined through the Lot Source inquiry.

The Where Used Inquiry is performed to determine the products in which the lot was used.

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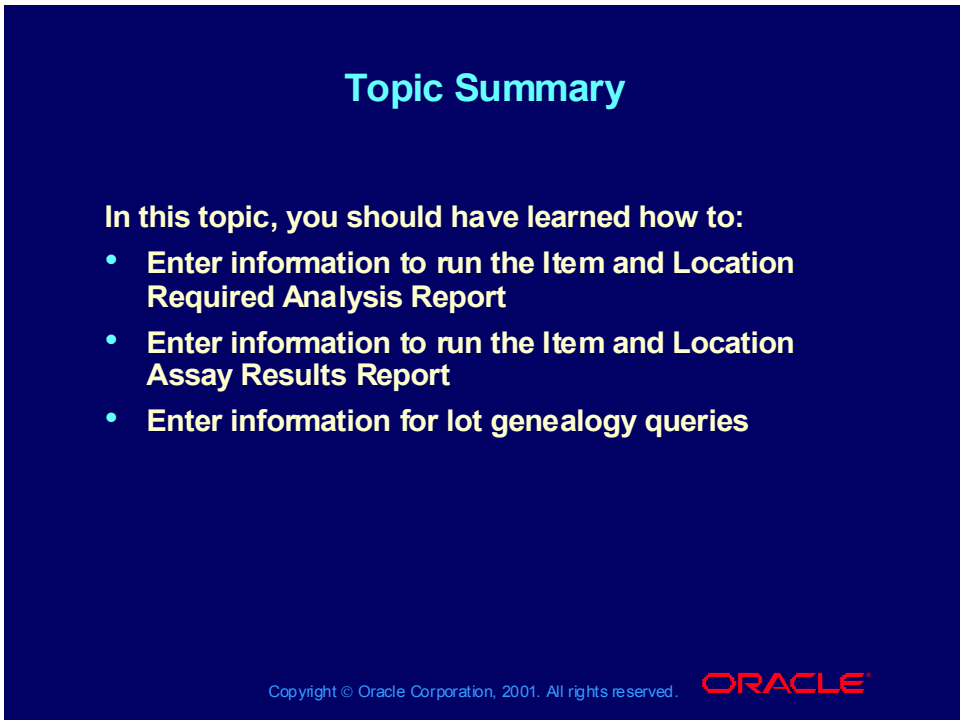

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Agenda

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- Establishing OPM Quality Parameters
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Oracle Process Manufacturing
Quality Management

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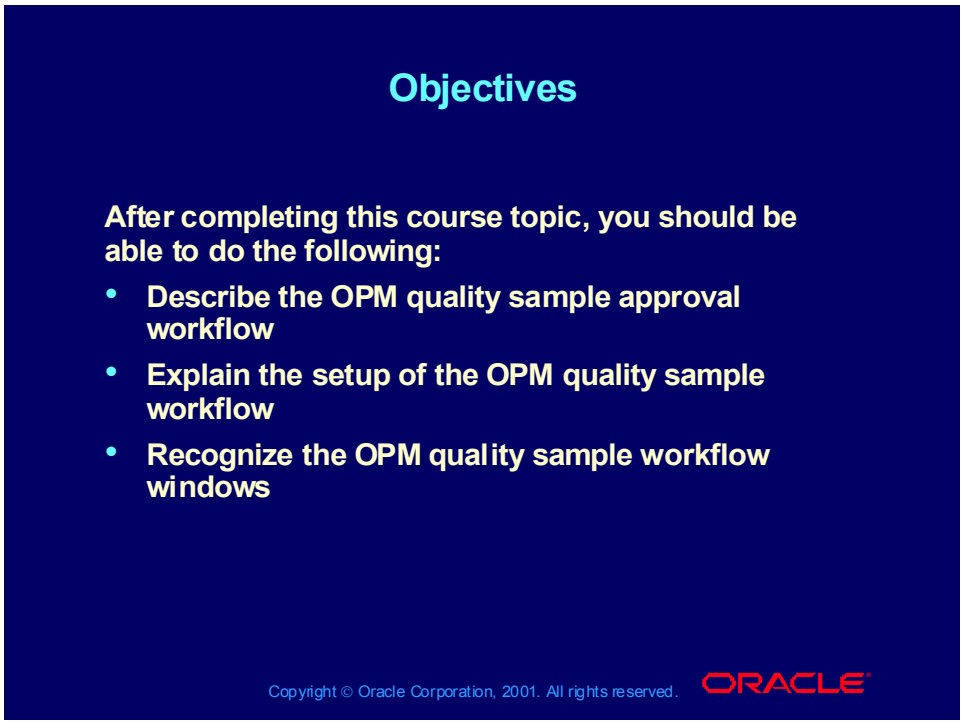

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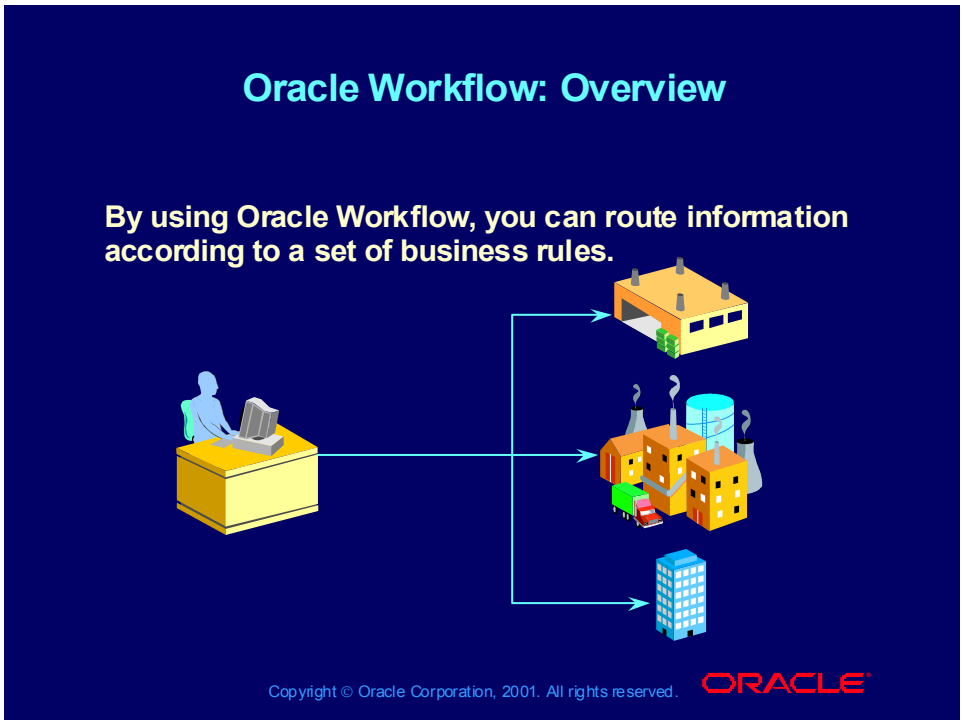

Oracle Workflow: Overview

Workflow Processes Description

A workflow is a process containing several steps that include activities, roles, and decisions that are needed to complete a business process.

Oracle Workflow lets you automate and continuously improve business processes by routing information according to a set of business rules. This information can be transmitted to individuals both inside and outside your enterprise on a need-to-know basis.

With Oracle Workflow, people receive notifications of items awaiting their attention through electronic mail using a Web browser or using the Notification Summary window in Oracle Applications.

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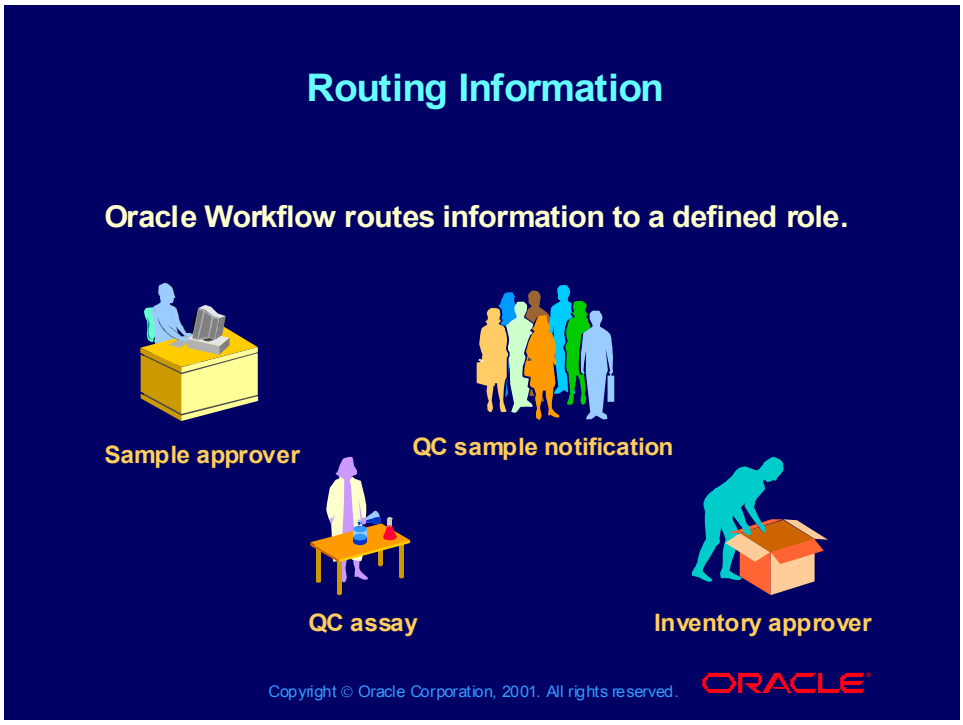

Routing Information

Role Description

Oracle Workflow routes information to a role. A role can be an individual user or a group of users. Any user associated with a defined role can act on the notification. Each notification includes a message associated with all the information a user needs to make a decision. Some possible responses are also included. Oracle Workflow interprets each response and moves on to the next workflow activity.

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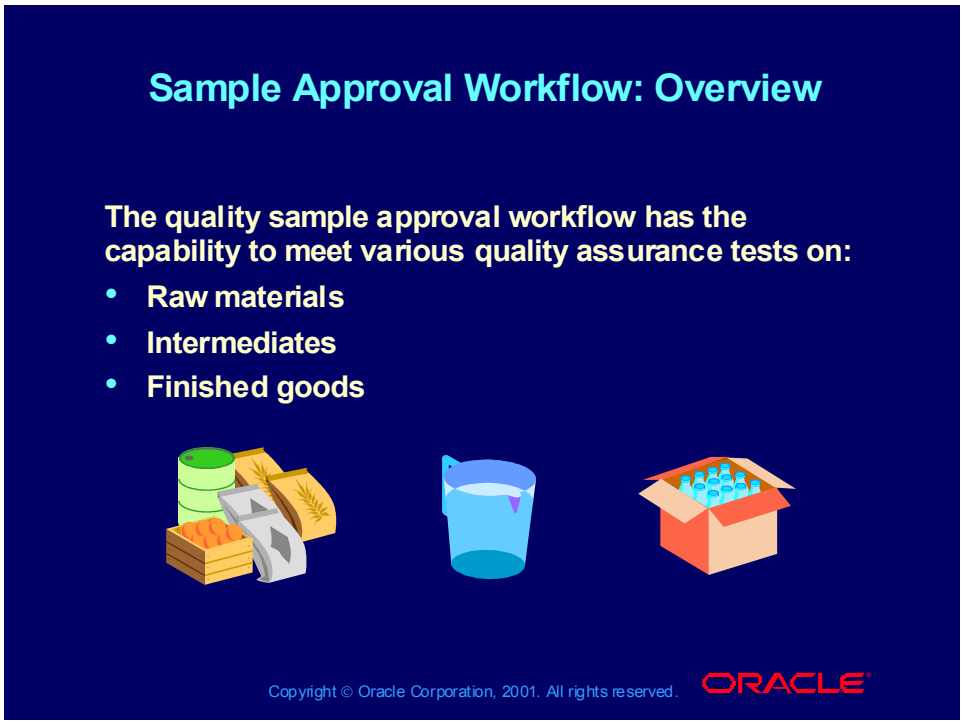

Sample Approval Workflow: Overview

OPM Quality Sample Workflow Capability

The OPM quality sample workflow has the capability to meet various quality assurance tests on:

- Raw materials
- Intermediates
- Finished goods

These tests can be viewed at any stage during the purchasing, production, or sales cycle. You can set up specifications, draw samples, and enter the results of the tests at the following levels:

- Item or lot
- Production
- Customer or vendor

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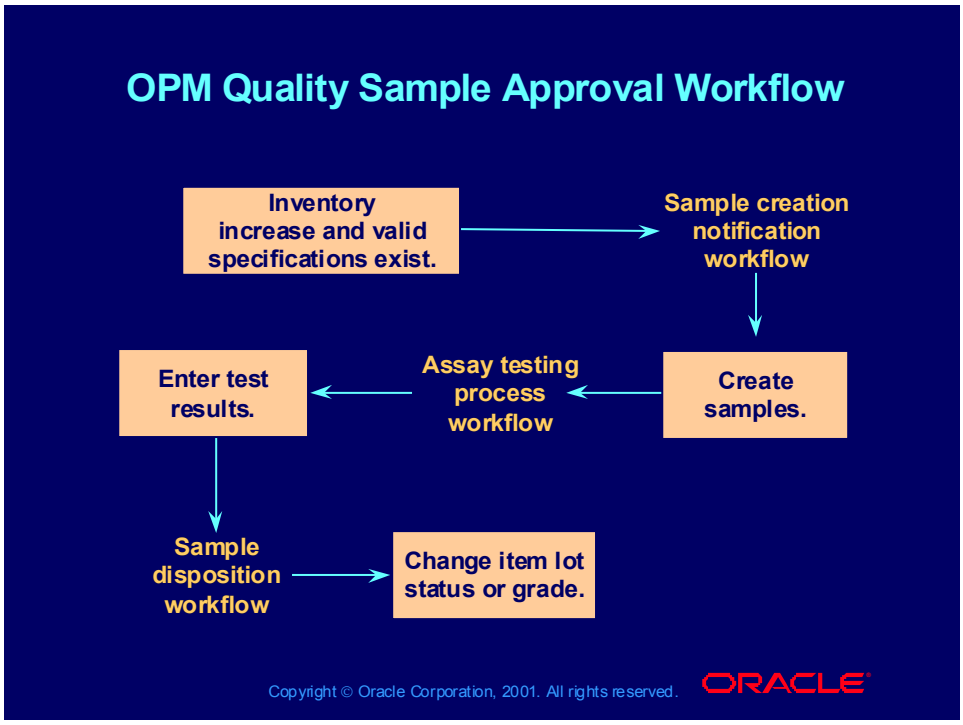
OPM Quality Sample Approval Workflow



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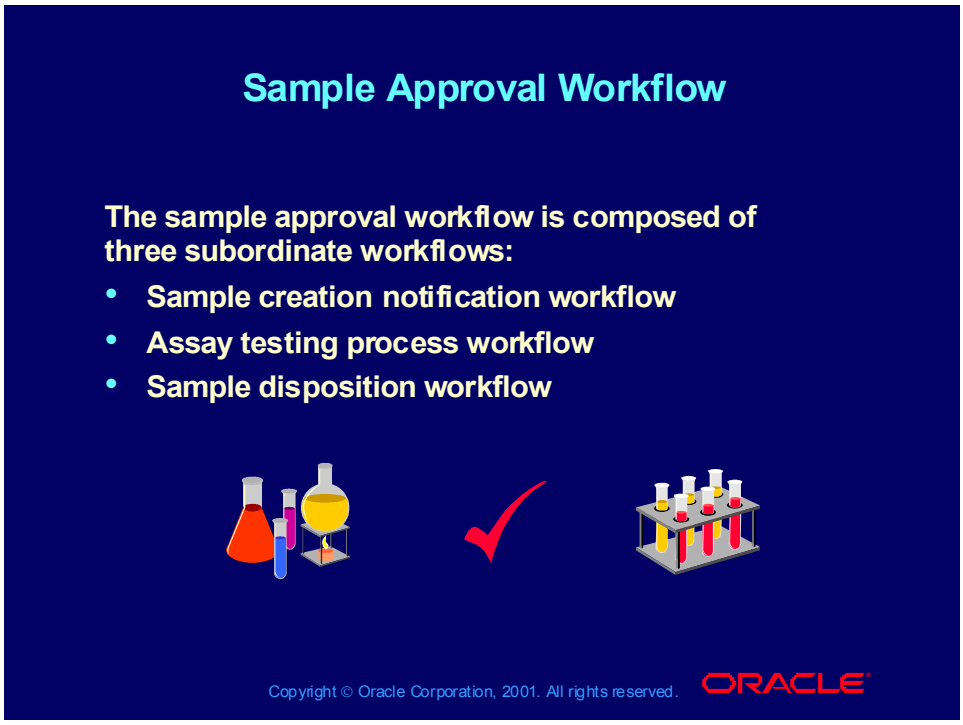

Sample Approval Workflow

OPM Quality Sample Subordinate Workflows

The OPM quality sample workflow consists of three subordinate workflows:

- Sample creation notification workflow: This workflow sends a notification and initiates the sample approval process workflow.
- Sample approval process workflow: This workflow is used to find assay specifications, initiate the assay testing process workflow, and send inventory status notification.
- Assay testing process workflow: This workflow is used to update assay status and accumulate assay results for the sample approval process workflow.

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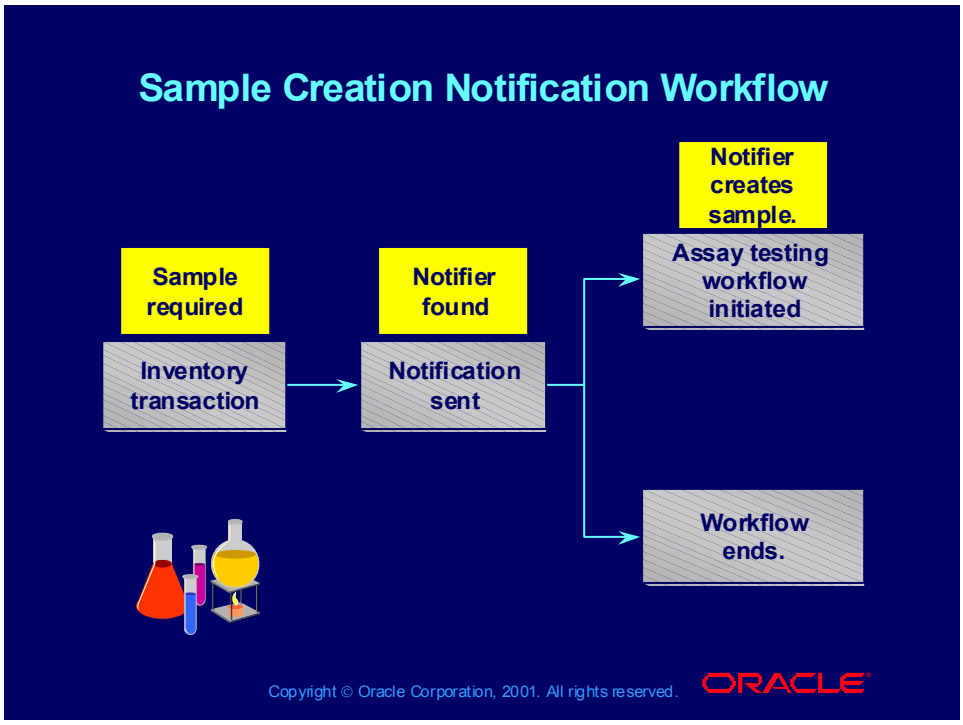

Sample Creation Notification Workflow

The sample creation notification workflow process consists of the following steps:

- The workflow begins when OPM transacts inventory requiring an assay.
- The notifier is found and notification is sent.
- The sample approval workflow is initiated if the notifier creates a sample from the notification or creates a sample independent of the workflow.
- The workflow ends.

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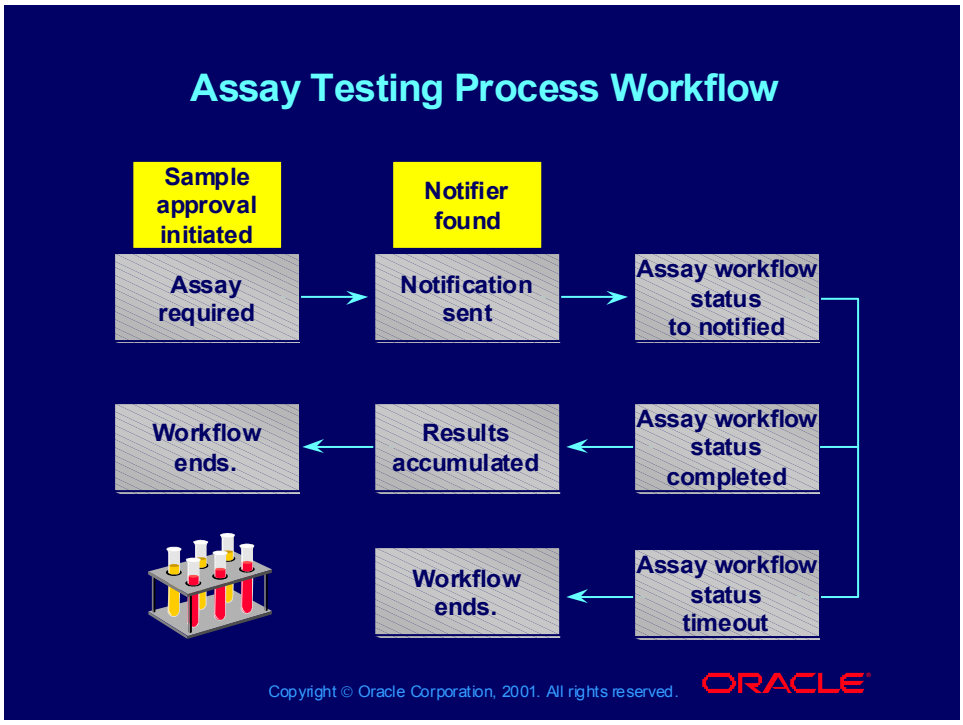

Assay Testing Process Workflow

The assay testing process workflow consists of the following steps:

- The workflow starts when an assay is required for new material. It is initiated from the sample approval process workflow.
- The notifier is found and notification is sent.
- The status of the assay is updated to Notified.
- When the assay is completed, the assay status is updated to Completed; otherwise the status is Time Out.
- Assay results are accumulated for the sample approval process workflow.
- The workflow ends.

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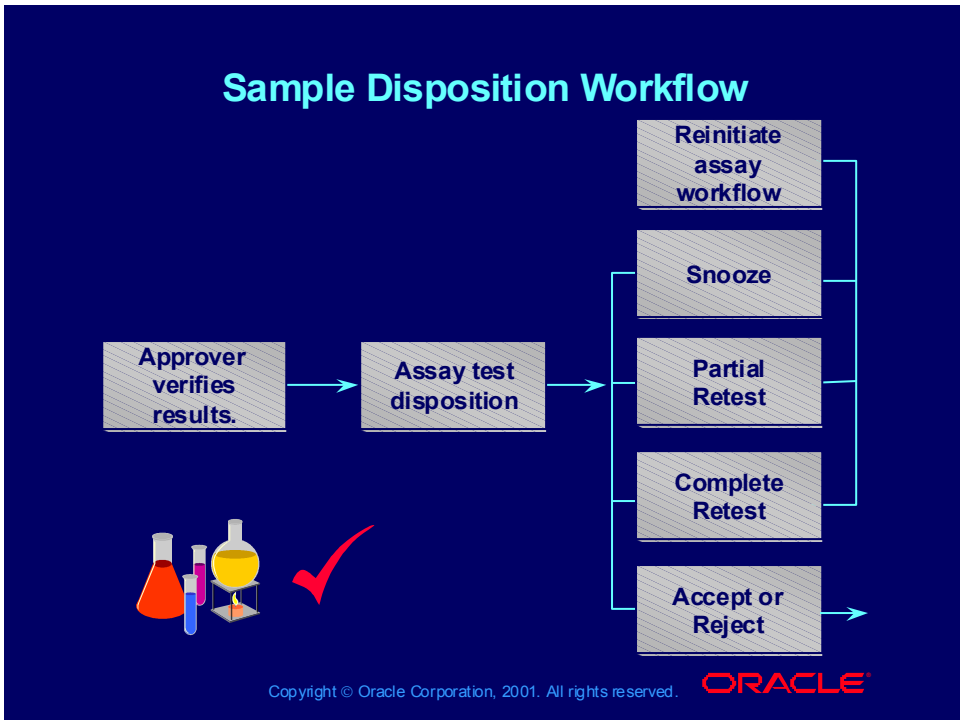

Sample Disposition Workflow

The sample approver can open the Sample Results window to verify the assay results.

The workflow continually checks assay test disposition as follows:

- If Snooze is detected, the workflow initiates the assay testing process workflow for timed-out assays and repeats steps 2 through 4.
- If Partial Retest is detected, the workflow initiates the assay testing process workflow for selected assays and repeats steps 2 through 4.
- If Complete Retest is detected, the workflow initiates the assay testing process workflow for all assays and repeats steps 2 through 4.
- If Accept or Reject is detected, the workflow proceeds to step 3.

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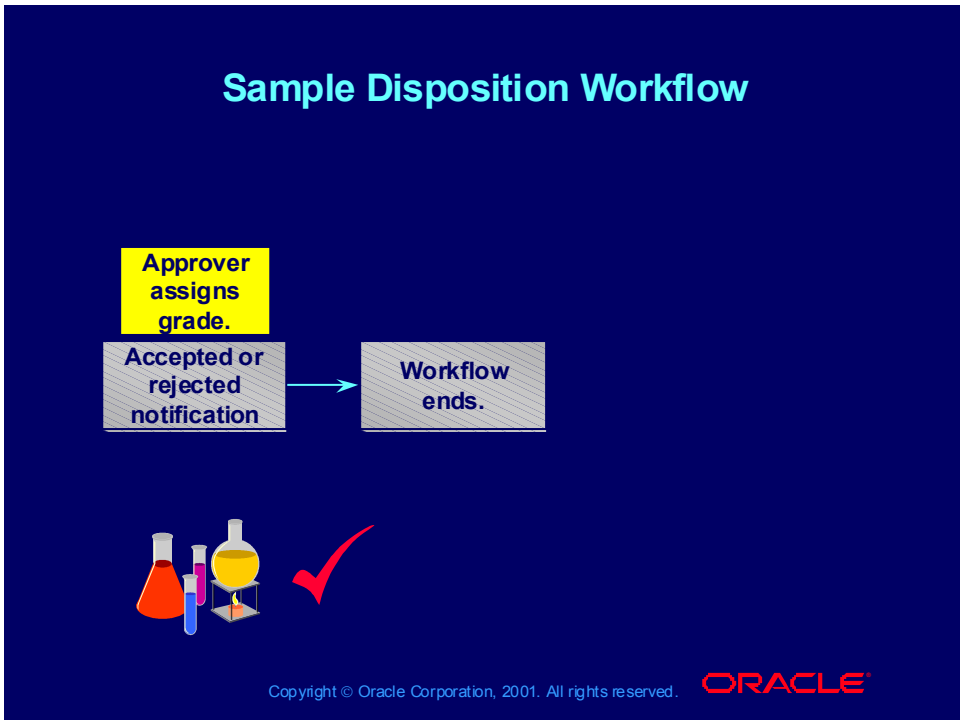

Sample Disposition Workflow (continued)

- The workflow finds the inventory approver and sends notification to this user that the inventory has been accepted or rejected. The inventory approver can open the Quantities window (in the Inventory application) to assign a grade to the material tested.
- The workflow ends.

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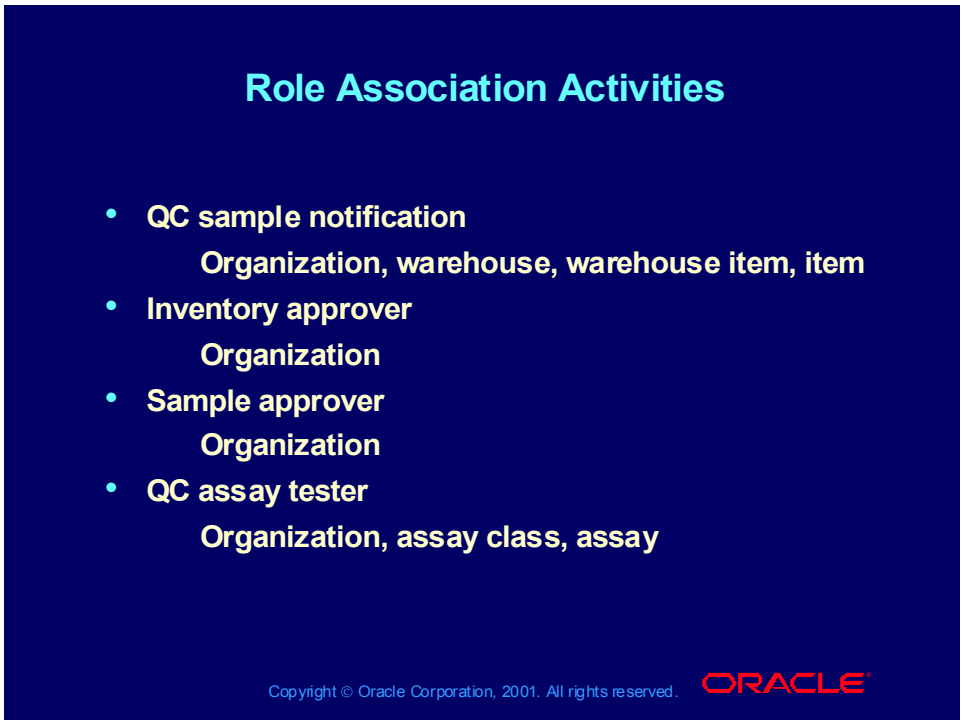

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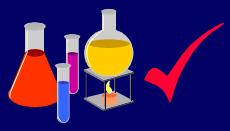
Implementation Considerations

- New profile value to support organization security
- Workflow activation
- Role association



Inventory approver

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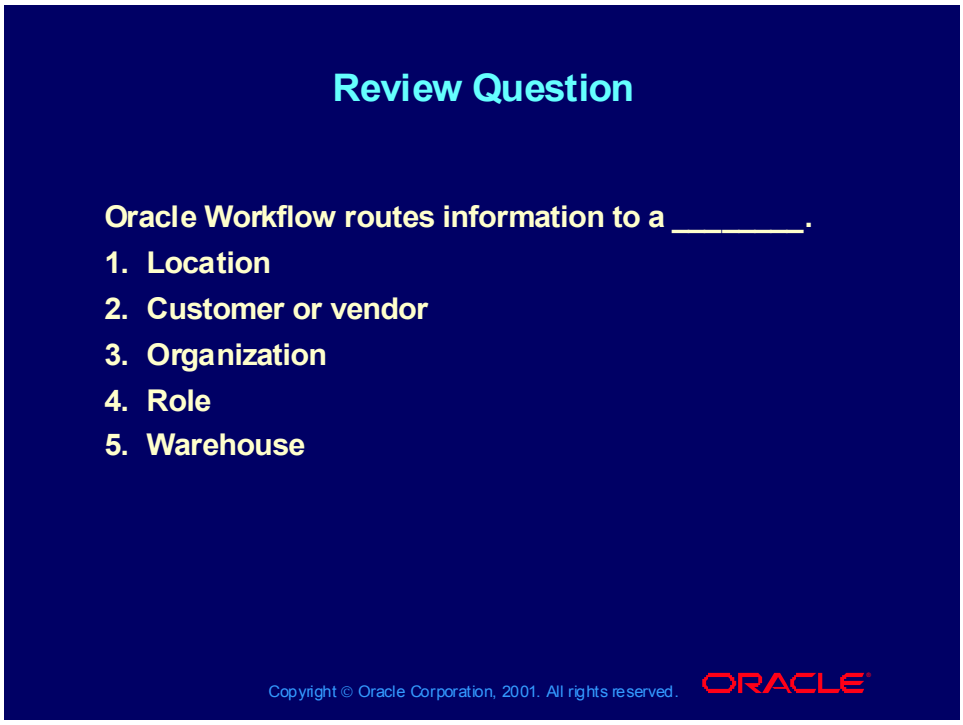

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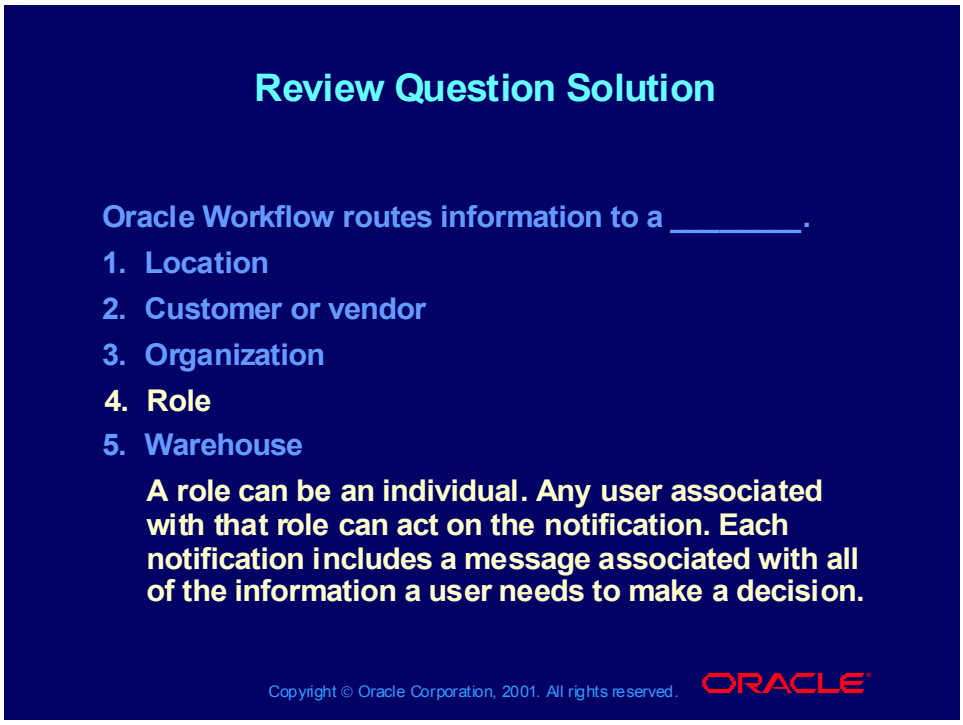

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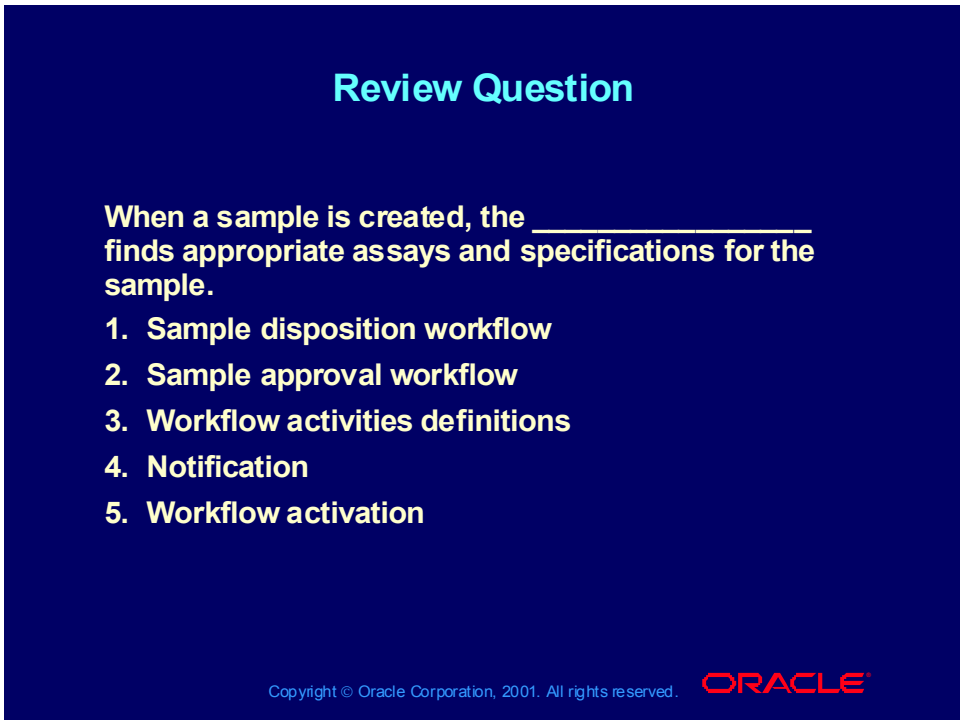

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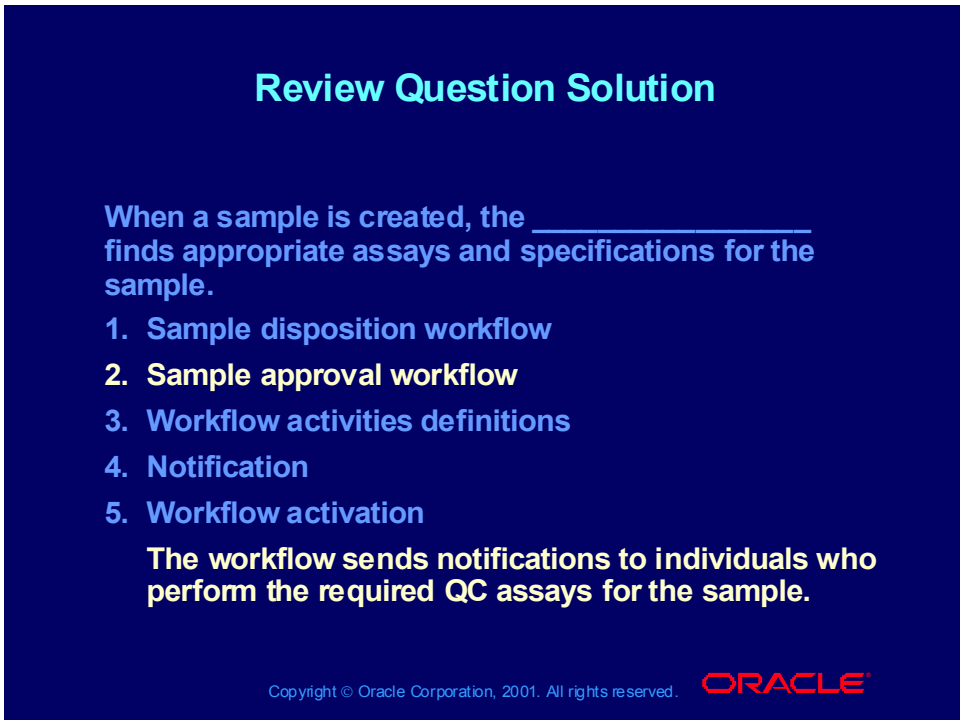

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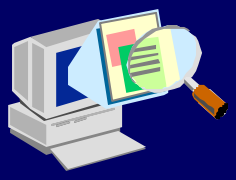
Instructor Demonstration

This demonstration covers how a standard workflow is used during the goods receiving process and production processes to inform quality control or the "qualified person" that materials are waiting for approval for further processing.



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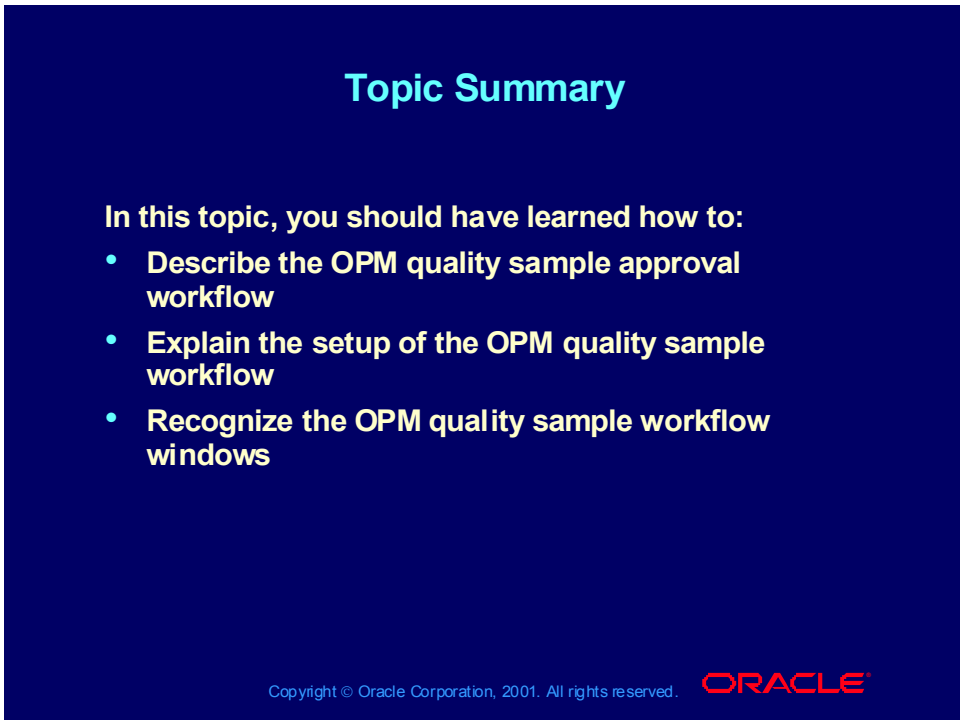

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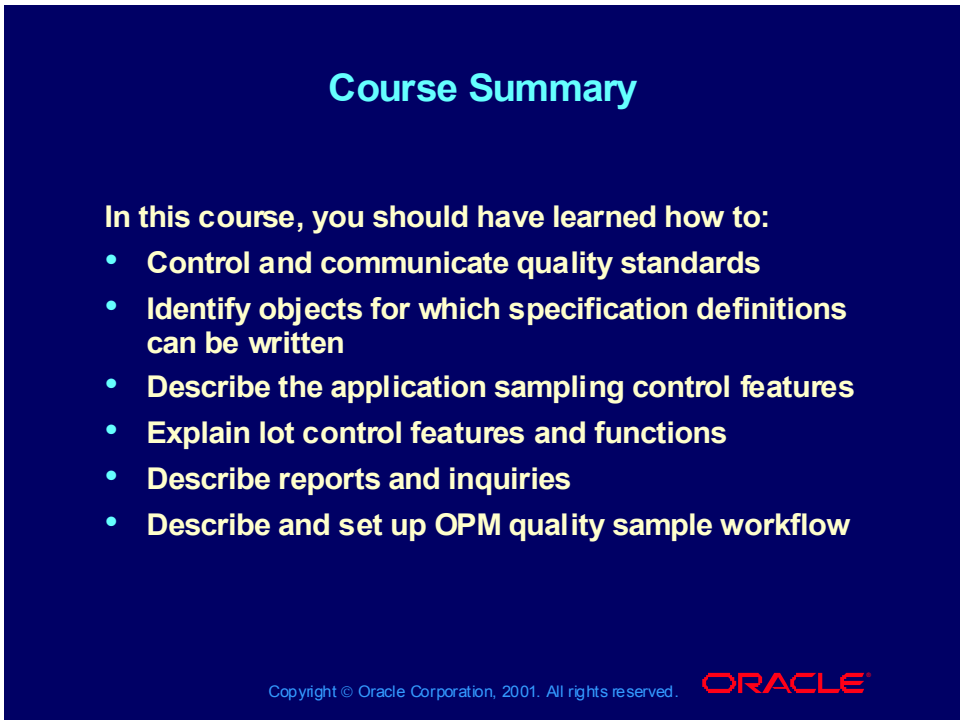

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