# R12.x Oracle Bills of Material and Engineering Fundamentals

**Duration:** 4 Days

**What you will learn**

This course will be applicable for customers who have implemented Oracle E-Business Suite Release 12 or Oracle E-Business Suite 12.1.

In this course, students will learn to use Oracle Bills of Material to define different types of bills of material to accommodate various business models and scenarios. Additionally, students will learn to use Oracle Engineering to create and implement engineering change orders. They will learn how to set up, implement, and use bill of material and engineering information. Practice sessions would enable the students to practice creating bills of material, routings and engineering change orders. They will also learn how to copy and transfer engineering information to manufacturing. Upon completion of this course, students will be prepared to use Oracle Bills of Material and Oracle Engineering. Learn to:

Use Oracle Engineering
Create engineering change orders
Create Bills of Material
Implement engineering change orders
Create Routings
Use Oracle Bills of Material

**Audience**
End Users
Functional Implementer
Technical Administrator

**Related Training**

*Required Prerequisites*

Ability to Navigate Oracle Applications

R12.1 Oracle E-Business Suite Essentials for Implementers

**Course Objectives**
Set up Engineering flowchart

Create Engineering Change Orders

Define and maintain manufacturing and engineering items

Transfer and copy items, bills, and routings

Understand item functionality

Understand and use item templates

Set up bills of material and routings

Set up and use Workday Calendars

Set up Bills of Material and routing information

Create standard bills of material

Create alternate bills of material

Create planning, model and option class bills of material

Use configure to order feature

Revise bills of material and items

Compare bills of material

Calculate lead times

**Course Topics**

**Defining Items**
Creating Manufacturing and Engineering Items
Using Item Templates
Entering and Revising Item Attributes
Enabling Organization Assignments
Searching Items
Viewing Item Information
Creating Item Catalog Groups
Defining Descriptive Elements

**Setting Up Bills of Material and Routings**
Setting Up Workday Calendars
Using the Workday Calendar
Setting Up BOM and Routing Information
Defining Competencies for Resources
Defining Competencies for Routings
Defining Competencies for Standard Operations
Creating Alternates
Defining Lookups

**Creating Bills of Material**
Overview of Bills of Material

Creating Standard Bills of Material
Entering Bills of Material
Assigning Descriptive Elements
Creating Reference Designators
Assigning Substitute Components
Creating Alternate Bills of Material

## Creating Customized Bills of Material
Creating Planning, Model and Option Class Bills of Material
Using Configure to Order Features
Autocreating Configuration Items
Deactivating Configuration Items
Creating Product Families
Assigning Members

## Maintaining Bills of Material
Revising Bills of Material and Items
Using Tools Menu
Reviewing Indented Bills of Material
Comparing Bills of Material
Using Common Bills of Material
Performing Mass Changes
Bills of Material E-Records
Bills of Material Business Events

## Create Routings
Creating Routings
Defining Operating Competencies for Performing Routing Operations
Calculating Lead Times
Computing Manufacturing Lead Time
Calculating Cumulative Total Lead Time

## Maintaining Routings
Revising Routings
Creating Standard Operations
Defining Operation Competencies for Standard Operations
Viewing Resource Usage

## Common Bills of Material and Routing Functionality
Copying Bills and Routings
Referencing Common Bills and Routings
Defining Documents
Defining Bill and Operation Documents
Deleting Information
Importing Bills and Routings

## Engineering Overview
Introducing Oracle Engineering

## Setting Up Oracle Engineering
Setting Up Engineering Flowchart

## Creating Engineering Change Orders

Engineering Change Orders Overview
Creating ECOs
ECO Life Cycle

## Maintaining Engineering Change Orders

Implementing ECOs
Viewing ECO Information
Running ECO Reports
Managing ECOs
Understanding Engineering Change Order Business Object Interface

## Transferring and Copying Engineering Items, Bills, and Routings

Transferring and Copying Product Information
Transferring Information to Manufacturing
Copying Information to Manufacturing