

The Oracle logo is displayed in red, featuring the word "ORACLE" in a bold, sans-serif font, followed by a registered trademark symbol (®). The logo is centered within a large white circle that occupies the left half of the slide.

ORACLE®

# Manufacturing

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# 01-Overview of Oracle Manufacturing

- Introduction

Manufacturing delivers core discrete and process manufacturing capabilities in the cloud that allow you to efficiently set up, manage, execute, and cost your production operations.

It supports in-house manufacturing activities of standard products for both discrete and process manufacturing.

In addition, for discrete manufacturing, it allows configured products to be executed to plan or to order, and supports contract manufacturing of standard products executed to plan or to order.

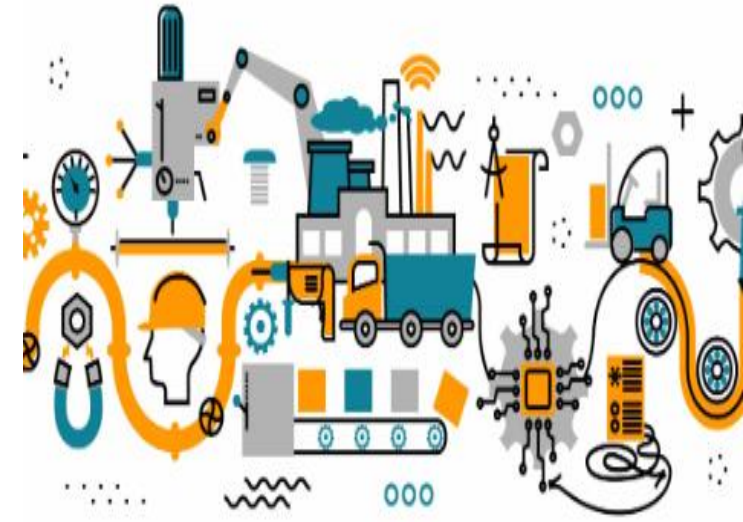
It supports discrete and process manufacturing scenarios where one or more operations of a work order are outsourced to a supplier who provides specialized manufacturing services.

You can run both process manufacturing and discrete manufacturing in the same plant.

The enhanced capabilities to support batch production of multiple co-products and by-products provide the foundation for mixed-mode manufacturing in the same plant.

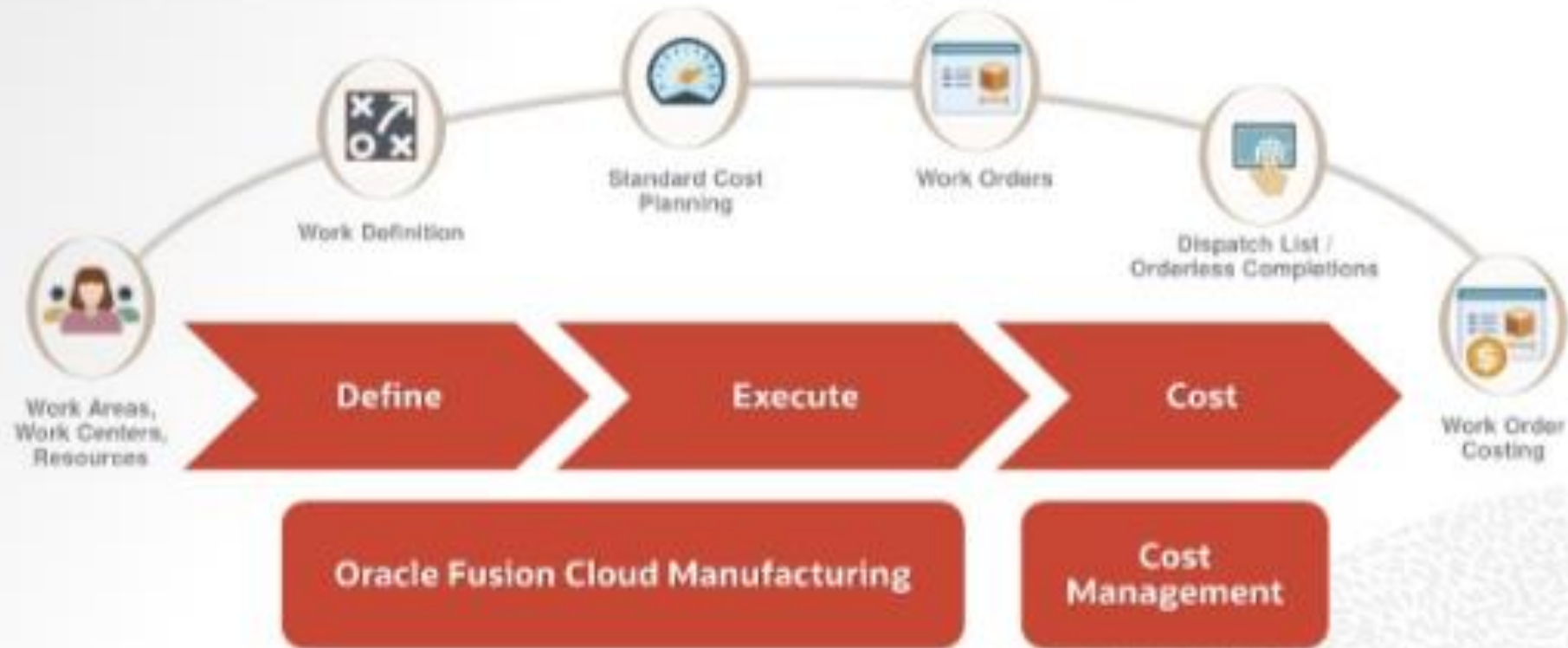
It supports project-specific manufacturing execution.

Manufacturing complements other Oracle Cloud applications in providing a comprehensive and complete supply chain solution for discrete and process manufacturing companies.



MANUFACTURING

# Enabling Efficient and Productive Manufacturing Operations



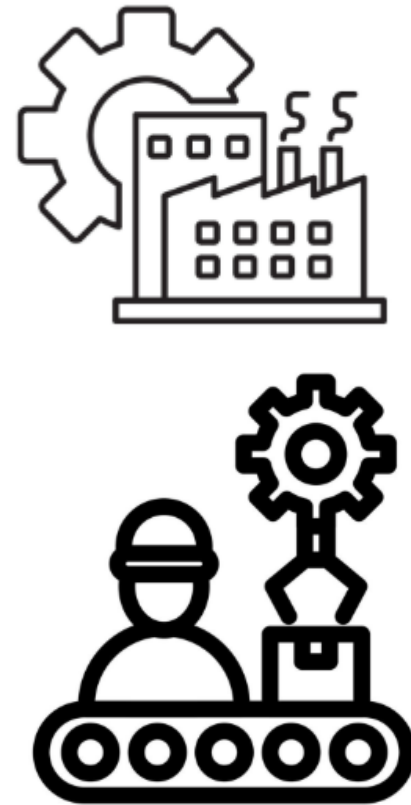
- Visually Model Shop Floor Processes
- Simplify Shop Floor Experience
- Enforce Execution Compliance
- Control Work Order Variances

# 02-Set Up Manufacturing Plant Data

- Oracle Fusion Cloud Manufacturing empowers manufacturing engineers with web-based interface tools to build a foundation of manufacturing plant data and design the discrete and process manufacturing processes for items.
- Additionally, the application offers intuitive visualization for ease of use.
- Manufacturing enables you to quickly define the necessary manufacturing setup data of your plant hierarchy.
- It helps you establish process standards with a standardized data model for production operations, which can be adapted to changing business processes and market conditions.

## Plant Parameters :

Associates a manufacturing calendar to the plant, and set up parameters and profile options to determine the behavior of work definition, work order, and work execution in a plant.



## Financial Information

Management Business Unit OM BU

Legal Entity Sesco Trans\_LE

Primary Ledger Sesco Trans EG

Profit Center Business Unit OM BU

General Lot, Serial Number, and Packing Unit Item Sourcing Details Additional Information

## General Information ?

Rectangular Snip

### Item Definition Settings

\* Item Master Organization OM\_MST ▼

Item Grouping Behavior Definition Organization

Item Definition Organization OM\_INV2

\* Starting Revision 0

### Inventory Settings

\* Schedule OM Schedule ▼

Time Zone (UTC+02:00) Cairo - Egypt ▼

Locator Control Locator control determined ▼

☒ Enable inventory tracking by project

☐ Warehouse accepts substitute items

☐ Allow negative balances

### Additional Usages

☒ Organization is a manufacturing plant

☐ Organization performs maintenance activities

☐ Organization represents a contract manufacturer

### Movement Request

Pick Slip Batch Size

Replenishment Movement Request Grouping

☐ Automatically de

Manage Plant Parameters ?

Manufacturing Organization OM\_INV1

Change Organization

Save

Save and Close

Cancel

Plant Details

\* Manufacturing Calendar

OM Schedule

☐ Enable synchronization to IoT Production Monitoring

Default Work Method

Process Manufacturing

☒ Enable process manufacturing

Material

\* Default Supply Subinventory

OM\_material

Default Supply Locator

\* Default Completion Subinventory

OM\_product

Default Completion Locator

Default Pick Slip Grouping Rule

Order Number

☒ Print pick slips

☐ Include pull components for pick release

☐ Issue push components on pick release

Manage Plant Parameters ?

Manufacturing Organization OM\_INV1

Change Organization

Save

Save and Close

Cancel

Work Definition

Starting Operation Sequence

10

Phantom Operation Inheritance

Material and Resources

Operation Sequence Increment

10

## Manage Production

Work Order Prefix

OM-MGF-

\* Work Order Starting Number

1

Default Overcompletion Tolerance Percentage

5

Default Undercompletion Tolerance Percentage

5

Purchase Requisition Trigger

Work order release ▼

Maximum Scheduling Duration in Months

12

Default Lot Number Used for Product Completion

No default ▼

☒ Include component yield in material requirements☐ Include operation yield in material and resource requirements☐ Automatically associate serial numbers during work order import☒ Allow direct purchases for work orders☒ Allow reservations for work order materials

Supply Types to Include in Planning by Default for Operation Items

☒ Bulk☒ Supplier

## Execute Production

Default Transaction Mode

All ▼

Default Transaction Quantity

Both ▼

Capture Level for Serialization Operations

Operation ▼

Material Reporting Level for Serialization Operations

Operation ▼

Allow Quantity Changes During Backflush

None ▼

Lot Selection During Backflush

Manual ▼

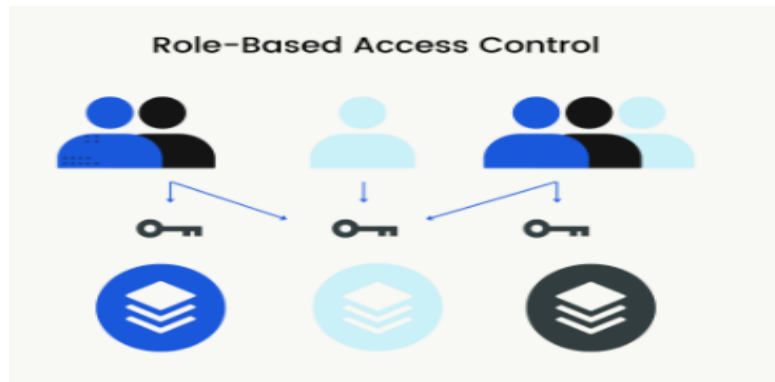
☐ Allow negative issue without serial number entry☐ Manually issue assembly to rework work order☐ Restrict lot numbers during returns



# Plant Security: Roles

Job roles are defined and inherit defined privileges. The following are user profiles of these defined job roles:

- **Manufacturing Engineer:** The Manufacturing Engineer develops, maintains, and improves manufacturing processes needed to achieve production goals according to product specification.
- **Production Supervisor:** The Production Supervisor is responsible for managing shop floor production resources and activities, to ensure on-time production of products at the required quality levels that meet customer expectations.
- **Production Operator:** The Production Operator is primarily responsible for the efficient operation of duties and responsibilities assigned in the operation of equipment, or assembly of goods.



## Plant Security: Data Access

The Manage Data Access for Users task assigns users to specific job roles and plant

Manage Data Access for Users

Users without Data Access | Users with Data Access

Security Context: Manufacturing plant

Search

User Name | Role

Search Results

Actions | View | Details | Add More Additional Data Access

User Name	Role	Security Context	Security Context Value
JENNA.SANCHEZ	Manufacturing Engineer	Manufacturing p...	002
JENNA.SANCHEZ	Production Supervisor	Manufacturing p...	004
JENNA.SANCHEZ	USE_SCM_OB_ITEMS_OO	Manufacturing p...	000
JENNA.SANCHEZ	Supply Chain Operations Manager	Manufacturing p...	000
JENNA.SANCHEZ	Production Supervisor	Manufacturing p...	010

Data Access is provided using "Manufacturing plant" as the security context.

# 03- Work Area

- Defines work areas to represent locations in a plant. Each work area is comprised of one or more work centers.
- Manage work Area page enables you to search, create, edit and inactive work areas.



## APPS



Work Definition



Work Execution

## Recently Updated Work Definitions

Item	Name	Version
OM-Discrete-001	OM-Work_Definition	1
OM-DISCRETE-002	OM-Work_Definition	1
OM-010	تعينة حكاير ليرة 50كم	1
OM-Discrete-001	تعينة حكاير برووتين	1
OM-010	تعينة حكاير برووتين	1

## Plant Resources

## Work Centers by Work Area

OM-work area1, 1



## Plant Setup

- Process Item Structure Changes to Work Definitions
- Calculate Lead Times and Roll Up Cumulative Lead Times
- Manage Work Definition Names
- Create Automatic Work Definitions
- Operational Rules
- Manage Standard Operations
- Manage Standard Operations in Spreadsheet
- Manage Resources
- Production Lines
- Workstations
- Manage Work Centers
- **Manage Work Areas**

## Kanban

- Pull Sequences

## Import

- Import Work Definitions
- Purge Records from Interface

Cancel

Create

## New Work Area

OM\_INV1 OM\_INV1

Name  
OM-work area

Description  
work area1

Code  
OM\_W\_A1

Inactive On



Context Segment

# 04-Resource

- Defines equipment or labor resources and resource instances used in production, and the corresponding resource rates.
- Define resource as automation equipment to represent a robot or an industrial equipment to automatically perform a work order operation.
- Manage resources page enables you to search, create, edit, inactive and delete resources.





Work Definition



Work Execution

## Recently Updated Work Definitions

Item	Name	Version
OM-Discrete-001	OM-Work_Definition	1
OM-DISCRETE-002	OM-Work_Definition	1
OM-010	تعينة حكاير لرة 50كم	1
OM-Discrete-001	تعينة حكاير بروتين-OM	1
OM-010	تعينة حكاير بروتين-OM	1

## Plant Resources

## Work Centers by Work Area

OM-work area1, 1



## Plant Setup

- Manage Standard Operations
- Manage Standard Operations in Spreadsheet
- Manage Resources
- Production Lines
- Workstations
- Manage Work Centers
- Manage Work Areas

## Kanban

- Pull Sequences

## Import

- Import Work Definitions
- Purge Records from Interface

## Details

Name  
OM-TRANSFORM

Description  
OM-TRANSFORM

Code  
OM-TRANSFORM

Type  
Equipment

Usage UOM  
Hour

Class  
ENG-CLASS

Labor

Equipment

☒ Costing enabled

Default Expenditure Type

# 05-Work Center

- Defines work centers, such as departments or production lines where an operation is performed.
- Work centers comprise production resources for which the capacity and availability information is maintained.
- Work center page enables you to search, create, edit and add work center resources and inactive work centers.





## APPS



Work Definition



Work Execution

## Recently Updated Work Definitions

Item	Name	Version
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OM-010	تعينة حكاير ليرة 50كم	1
OM-Discrete-001	تعينة حكاير برووتين	1
OM-010	تعينة حكاير برووتين	1

## Work Centers by Work Area

OM-work area1, 1



## Plant Setup

- Process Item Structure Changes to Work Definitions
- Calculate Lead Times and Roll Up Cumulative Lead Times
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- Create Automatic Work Definitions
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- Manage Standard Operations
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- Manage Resources
- Production Lines
- Workstations
- Manage Work Centers
- Manage Work Areas

## Kanban

- Pull Sequences

## Import

Cancel

Create

## New Work Center

OM\_INV1 OM\_INV1

## Details

Name  
OM Work center

Description  
Work center1

Code  
OM\_W\_C1

Work Area  
OM-work area1

Inactive On



Supply Subinventory  
OM\_material

Supply Locator

## General Information [Show Less](#)

\* Name

\* Code

Description

☒ Override schedule

\* Work Area

Supply Subinventory

Supply Locator

Inactive On

## Work Center Calendar

View

* Calendar Name	Description	Work Center Calendar Association		Calendar Effective	
		* Start Date	End Date	From Date	To Date
<input type="text" value="SESCO Schedule"/>	SESCO Schedule	<input type="text" value="3/20/28"/>		1/5/20	12/11/35
	OM Schedule		3/19/28	3/2/25	3/24/27

## Resource Availability: SESCO Schedule

View

Resource	Inactive On	Default Units Available	Available 24 Hours	SESCO SHIFT	Resource Calendar
OM-RESOURCE1		2	<input checked="" type="checkbox"/>		
OM-RESOURCE2		5	<input checked="" type="checkbox"/>		
OM-RESOURCE3		9	<input type="checkbox"/>		<input type="button" value="Calendar"/>



- Resource instance** allow you to :
- 1- define labor and equipment resource instances
  - 2-Assign resource instance to work order
  - 3-Charge resource instances in work execution
  - 4-Report production Exceptions
  - 5- Analyze resource instance in reports and analytics

Edit Resource: OM-TRANSFORM ?

\* Name

OM-TRANSFORM

\* Code

OM-TRANSFORM

Description

OM-TRANSFORM

Type

Equipment

Class

ENG-CLASS

\* Usage UOM

Hour

Inactive On

m/d/yy

☒ Costing enabled

Default Expenditure Type

Material Costs

Resource Instances

View ▼Format ▼+ ×🔍📄Detach

* Identifier	* Name	Primary Work Center	Asset Number	Asset Description	Inactive On	IoT Insights
OM-TRANSFORM	OM-TRANSFORM	OM_تحويل	16122001		m/d/yy	

Columns Hidden 3