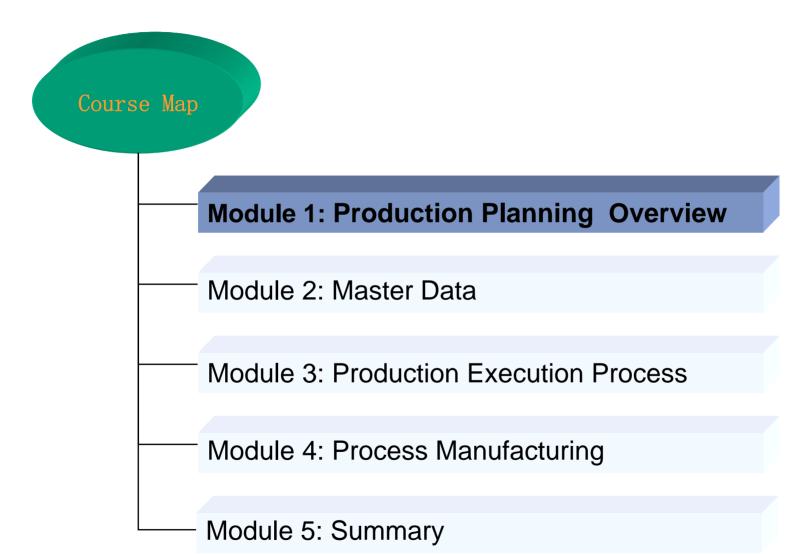
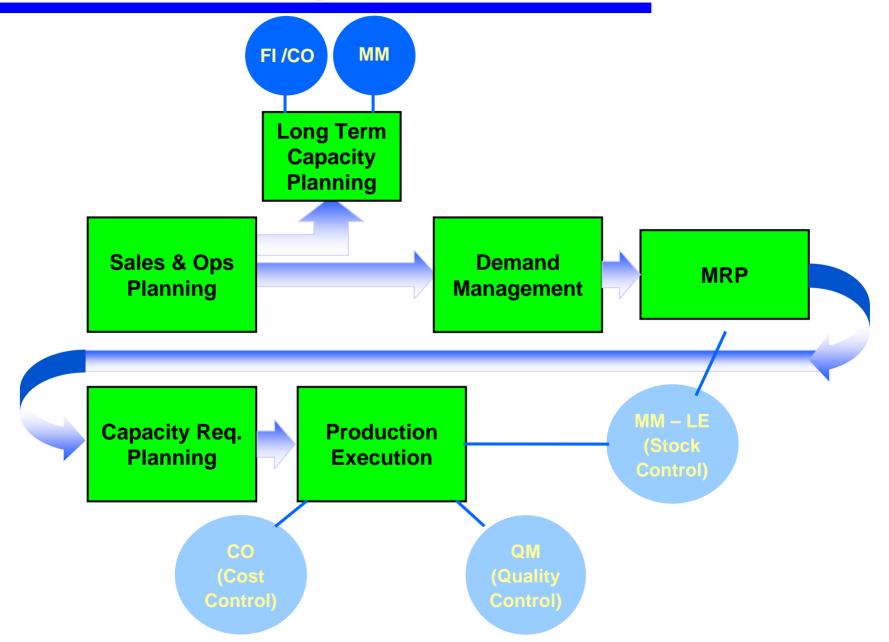
# **PRODUCTION EXECUTION**



# What is Production Planning?

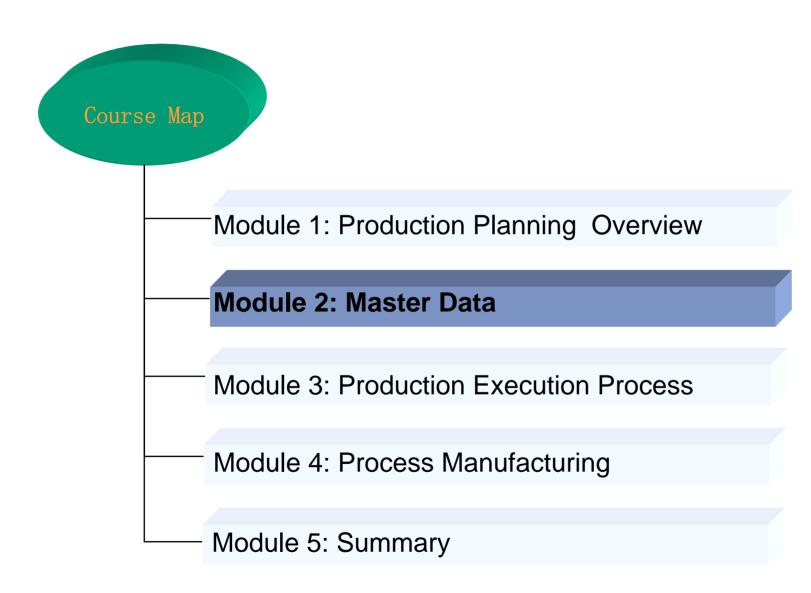
- Production Planning is the process of aligning forecasts with manufacturing capability to create production and procurement schedules for finished products and component materials.
- It also tracks and records the detail of the manufacturing process, for example, the planned and actual costs and material flows
- It is fully integrated with the other SAP modules: SD, MM, LE, QM, CO

#### **PP flow & Integration**



## **Course Objectives**

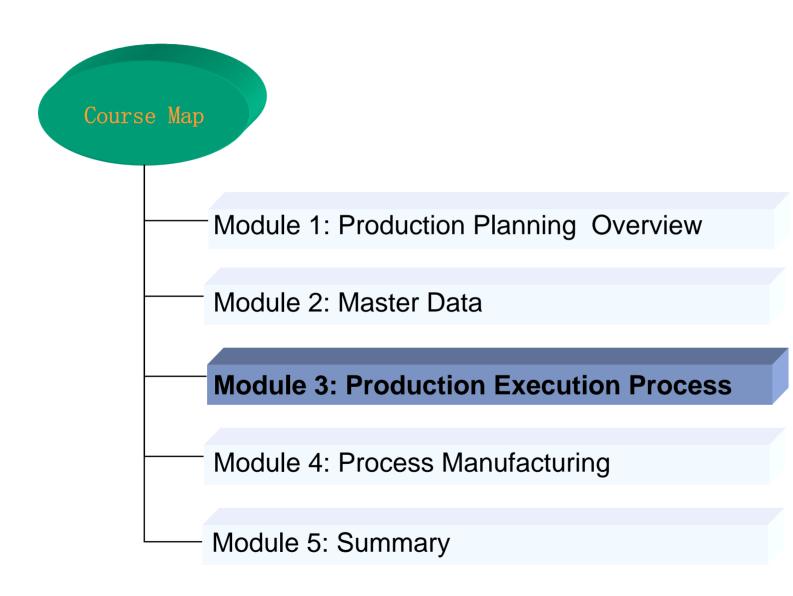
- Understand the principles of Production Execution
- Define the material staging process
- Describe how to confirm operations in orders
- Explain now to back flush components
- Describe how to deal with failed backflushes and make manual corrections
- Perform Production Execution transactions



## **Master Data Related Transactions**

#### Practice the following transactions

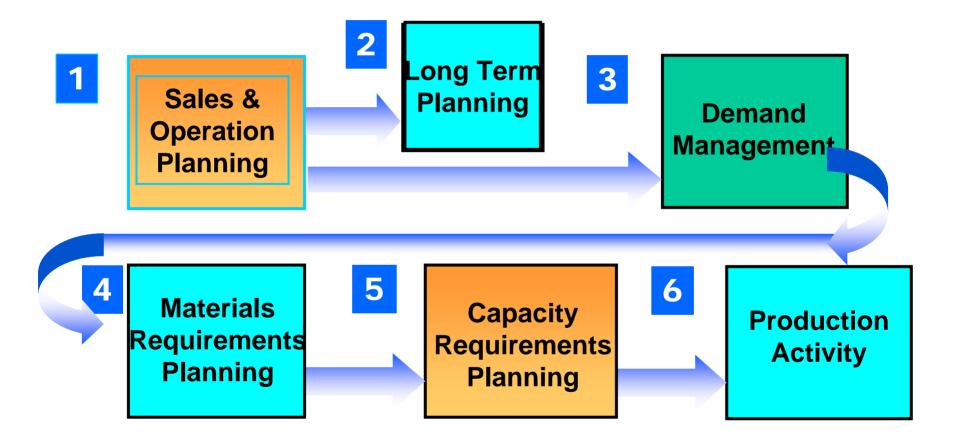
- MM03 Display Material Master
- C203 Display Master Recipe
- CRC3 Display Resource
- CR03 Display Work Center



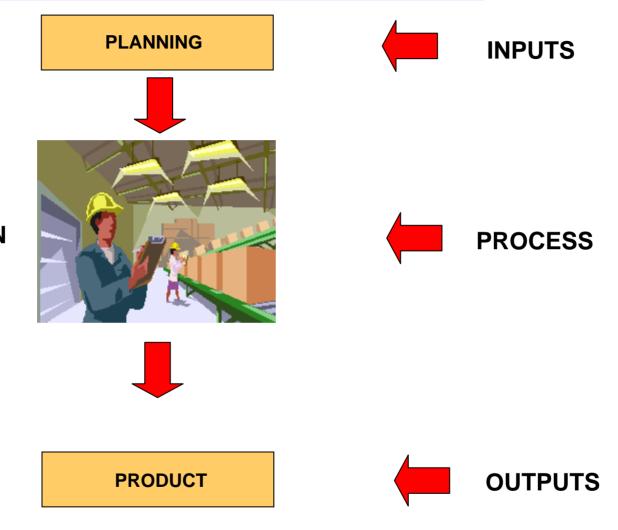
# What is Production Execution?

- Production Execution is the final part of the Production Planning process
- The availability of materials for production is checked in the production location. The transfer of any shortages is requested using the staging transaction.
- As orders are completed, order operations are confirmed. Material and utility usage is recorded by 'back-flush'

## **Production Planning Processes**

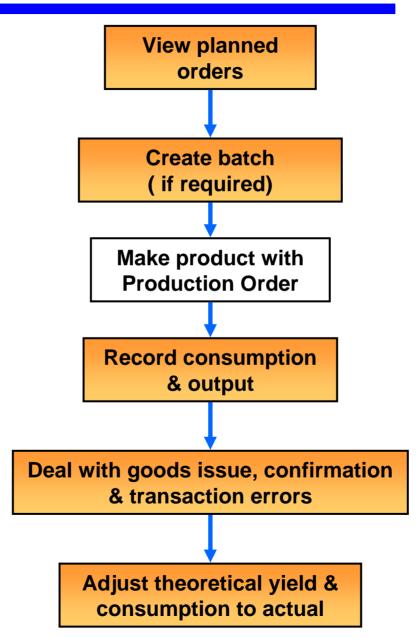


### **Production Execution Process Flow**



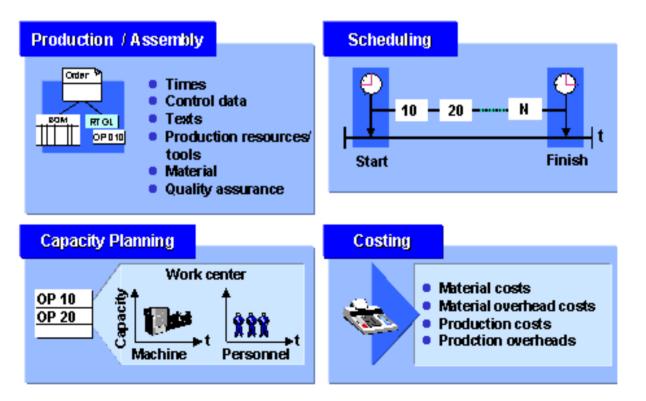
#### PRODUCTION EXECUTION

### **Production Execution Process**



# **Production order**

A production order defines which material is to be processed, at which location, at what time and how much work is required. It also defines which resources are to be used and how the order costs are to be settled.



- **Created** Order is created and changes can be made
- Released Order released, suggested not to make any change
- Partially confirmed Production qty/activity partially confirmed
- **Fully confirmed** Production qty/activity fully confirmed
- Delivery completed Entire order quantity has been received
- Technically completed Order processing is over, ready for month end processing by accounts

# **Confirmation of Production Orders**

- Confirmation for operation Reporting of yield quantity and consumed activities and utilities for specific order and at specific operation.
- Milestone confirmation Reporting of yield quantity and consumed activities and utilities for a specific order and specific operation. This confirms of all the previous operations in the order.
- Collective confirmation Reporting of yield quantity and consumed activities and utilities for many orders.

#### WIP calculation

Work in progress are the items which are issued from the stores and the process is not completed and lying in the shop floor. WIP is calculated by costing and reported in the inventory value.

#### Variance calculation

Variance is the difference between planned and actual consumption of material, activity and utilities. It is calculated at the end of the month.

#### Settlement of order

Calculated variance for each order are settled to the costing objects according to the costing methodology and procedures.

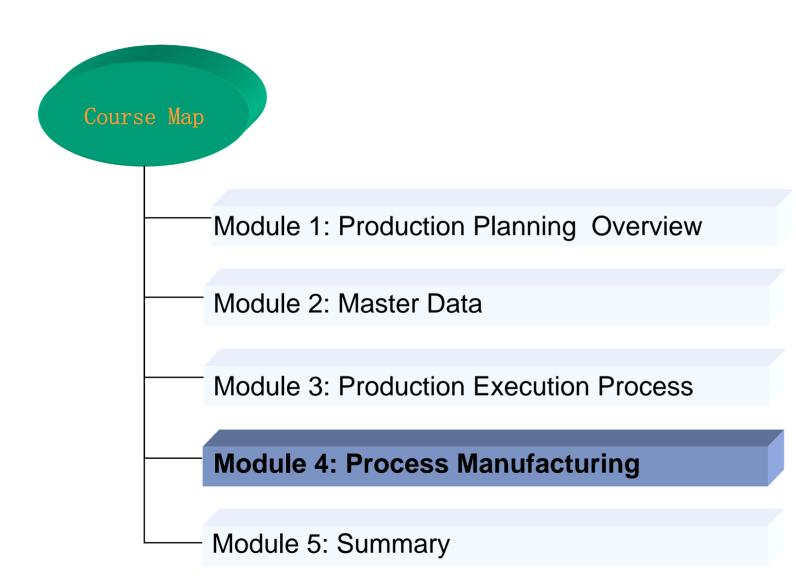
### **Demonstration and Exercises**

#### Practice the following transactions

- MMBE Stock overview
- MD16 Display planned orders
- MD04 Stock requirement list and convert planned order to production order
- MIGO Goods issue to production order
- MIGO Goods receipt for production order
- CO15 Confirmation for order

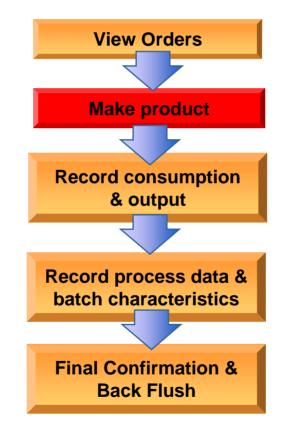
#### Plant Operations

Responsible for the detailed control of manufacturing orders, including material staging, printing of any shop floor documents and recording of produced quantities. These quantities will also cause the issue of the appropriate quantities of raw materials and components via backflushing

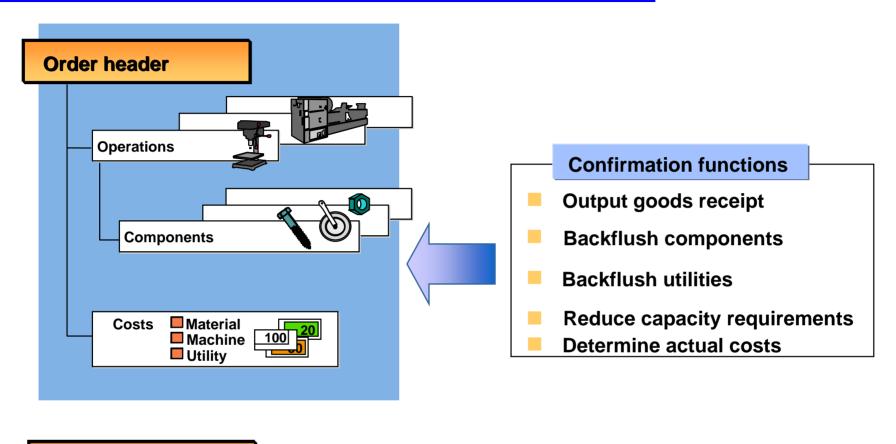


- Process manufacturing is used in processing areas as it gives greater control over very complex processes
- Process manufacturing allows the end user to input very specific information across multi steps easily.

#### **Process - Manufacturing Procedures**



#### **Confirmation – Production / Process Orders**





#### **Transactions**

#### Practice the following Transactions

- MMBE Stock Overview
- COID Display Process Order
- MSC1N Create Batch
- CORK Process order confirmation

#### Transactions

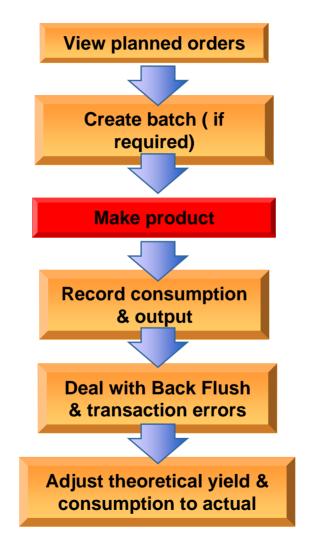
#### Practice the following Transactions

- COR2 Process Order change
- CORS Cancel Process Order
- COIO Process Order Report
- MCRV Process Order
- MCRE Material Usage
- KKBC-HOE Product Cost analysis

# **Repetitive manufacturing**

- Repetitive manufacturing is used for materials that are produced in a repetitive environment, where the process is ongoing
- Repetitive manufacturing is very flexible in its application and is an excellent tool for repetitive processes

### **Repetitive manufacturing Procedures**



# **Rep.Mfg.Related Transactions**

#### Practice the following Transactions

- MMBE Stock Overview
- MF51 Production list report
- MSC1N Create Batch
- MFBF Back Flushes

### **Report Related Transactions**

### Practice the following Transactions

- COGI Post processing components
- MF41 Month-End Corrections
- MCRE Material Usage
- MCP6 Goods Receipt
- KKBC-HOE Product Cost analysis