PP Integration with Other SAP Modules

Course ID : PP1019_PP_Integration_with_other_SAP Modules

Lesson Objectives

- Objectives -On successful completion of this training module, you should have:

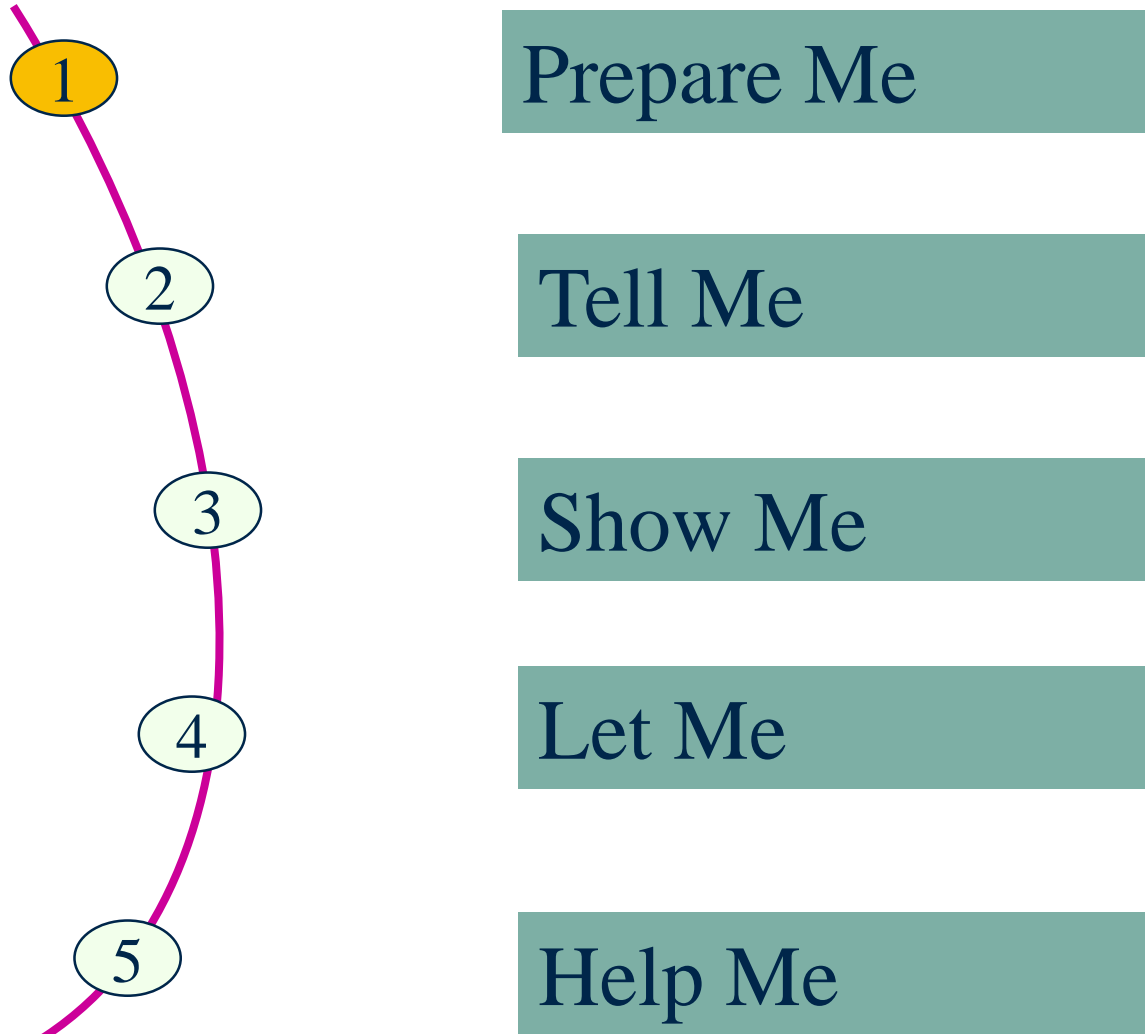➢ Understood the basics of how SAP PP Module Integrated with other logistic modules
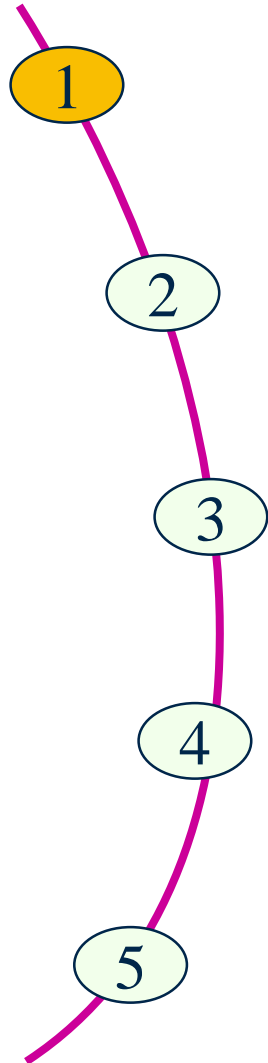
Training Agenda

➢SAP PP Integrated with other logistic modules

➢Logistics Process Flow

➢SAP PP-QM Integration

➢SAP PP-MM Integration

➢SAP PP-SD Integration

➢Cross Functional Transactional Codes

PP Integration with Other Modules

1 Prepare Me

2 Tell Me

3 Show Me

4 Let Me

5 Help Me

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PP Integration with Other Modules

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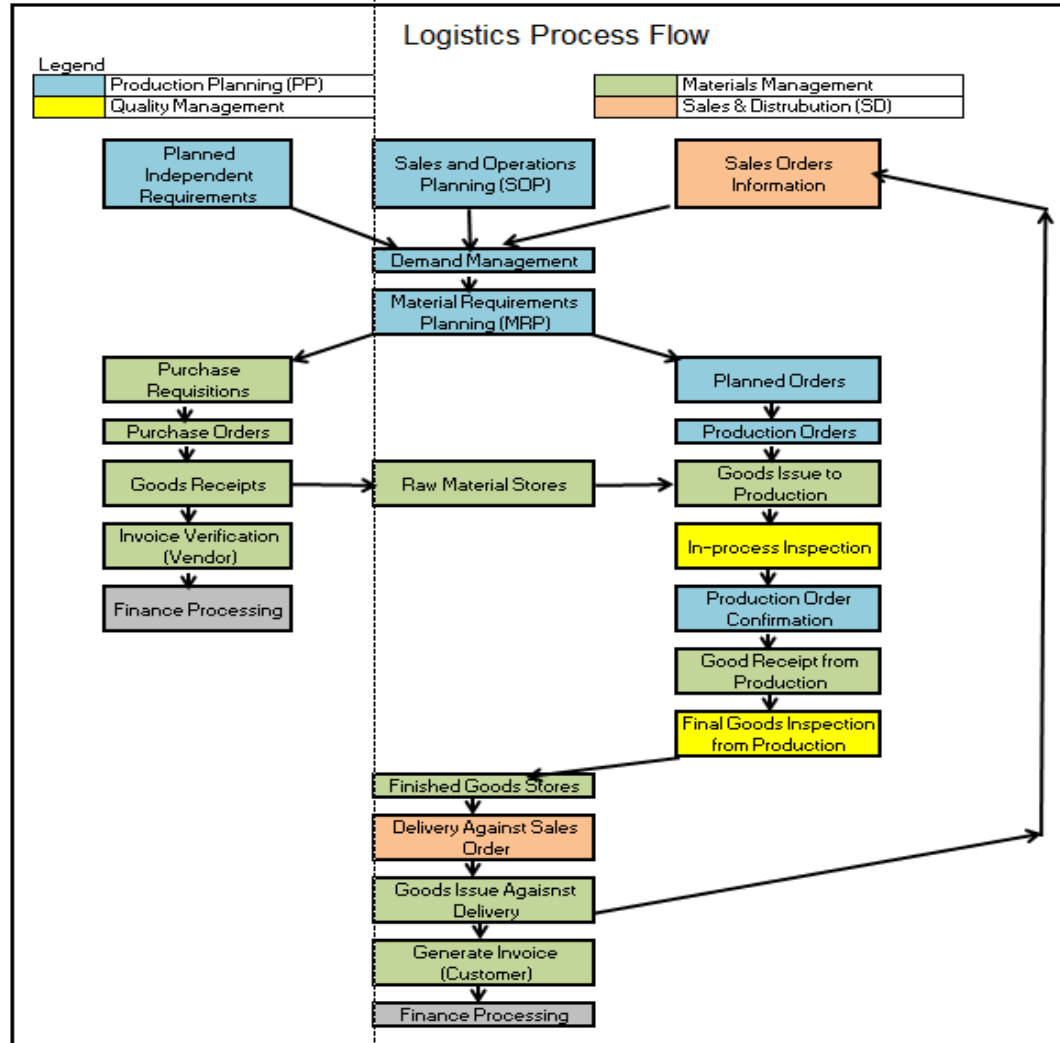Show Me

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Prepare Me

- SAP PP integrated with other logistics modules like
  - Quality Management (QM)
  - Materials Management (MM)
  - Sales and Distribution (SD)

- SAP PP Integration with Controlling (CO) modules is separately covered in other session

- SAP PP also integrated with Plant Maintenance (PM) and Project Systems (PS)

- Cross module integration is maintained as customization data and master data in related modules

- Some transactions will automatically update transactional data in different cross module objects.

Summary

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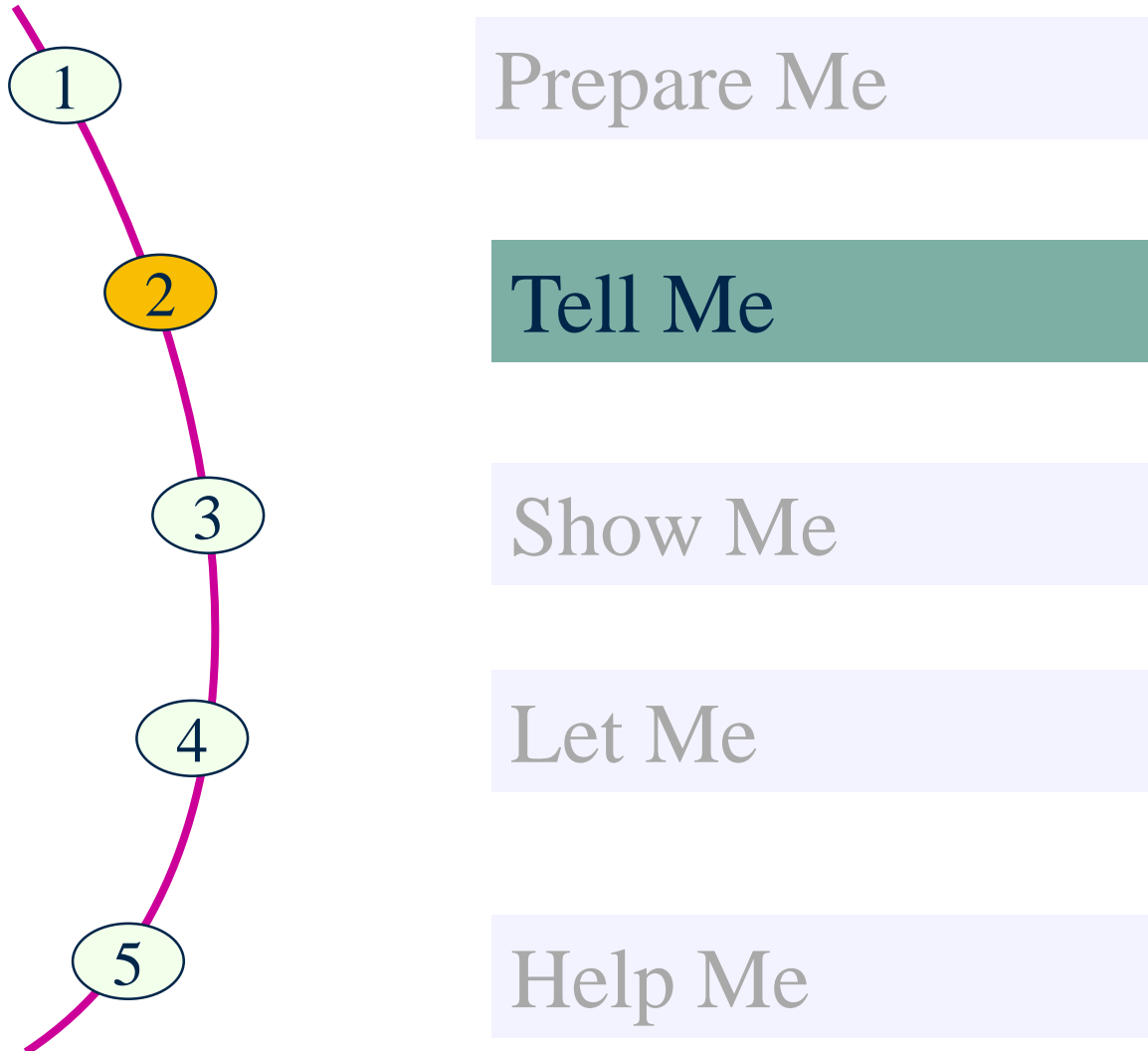
Logistics Process Flow

SAP PP-QM Integration

Integration Points: In-process Inspection

▪ Inspection specifications are maintained in material routing (PP Master Data) and inspection type "03" activated in material master

▪ In-process Inspection lot is created for each production order while releasing it

▪ Inspection observations, test results are stored in inspection lot

▪ Inspection observations, test results can be collected against various field combinations

▪ The field combinations can be day, shift number, operator number, machine number, bin number etc

▪ Quality department can restrict some of production functions if actual test results are out of specifications

▪ Goods movements cannot be controlled via in-process inspection lots

▪ After all test results are completed usage decision is made for the inspection lot

SAP PP-QM Integration

Integration Points: Final Inspection From production

▪ Inspection specifications are maintained in inspection plan(QM Master Data) and inspection type "04" activated in material master

▪ In-process Inspection lot is created for each production order during goods receipt

▪ Inspection observations, test results are stored in inspection lot

▪ Inspection observations, test results can be collected against various field combinations

▪ The field combinations can be day, shift number, operator number, machine number, bin number, sample number etc

▪ Quality department can restrict material movements (like move to blocked stock) if actual test results are out of specifications

▪ Goods movements can be controlled via these inspection lots

▪ After all test results are completed usage decision is made for the inspection lot

SAP PP-MM Integration

Integration Points: Procurement

- Procurement related master data maintained in material master (MRP2)

- Purchase Requisitions (Request to procure materials or services) are created by MRP or manually

- Planned orders can also be converted to purchase requisitions

- External operations in routing are integrated with procurement

- Lot size procedure integrated with procurement

- Sub contracting process is integrated with PP

- Consignment process is integrated with PP

SAP PP-MM Integration

Integration Points: Goods Issue to Production

- Components required for production order are issued from inventory
- Material Reservations are created for production order components
- Goods issue can be executed manual or automatic.
- Partial goods issues also can be performed
- Goods issue can be executed against single or multiple production orders at a time
- Material documents generated for all goods issues
- A material document can contain multiple goods issue line items
- Additional components can be issued to production order manually
- Batch determination of production order components is integrated with inventory management
- Movement type for goods issue from inventory to production order is "261"
- Back-flushing (Transaction MFBF) can be used for goods issue in some cases.

SAP PP-MM Integration

Integration Points: Goods Receipts from Production

- Goods receipts are performed final products from production to inventory
- Goods receipts can be manual or automatics
- Goods receipts can be executed against single or multiple production orders at a time
- Material documents generated for all goods receipts
- A material document can contain multiple goods receipts line items
- Movement type for goods issue from production order to inventory is "101"
- Back-flushing (Transaction MFBF) can be used for goods receipt some cases.
- If quality inspection for final inspection from production is active for the final product, material can be moved to blocked stock instead of un-restricted stock

SAP PP-SD Integration

Integration Points:

▪ Creation of sales order & sales requirements impacts material requirements planning

▪ Delivery against sales order impacts material requirements planning

▪ In make to order production (MTO), production order is created with reference to sales order

▪ Material availability check can be performed against sales orders

▪ Specifications from sales orders are transferred to production in case of variant configuration products

▪ In case MTO planning strategies without final assembly, sales order creation impacts planned order to production order conversion.

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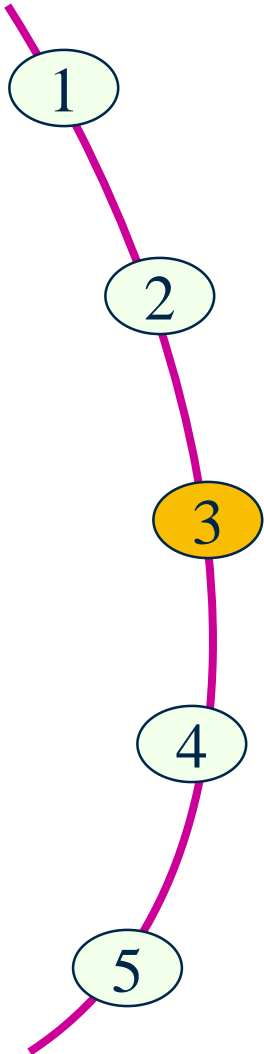
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PP-QM Integration

Material Master QM View

PP-QM Integration

Production Order Released
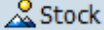
PP-QM Integration

In-process Inspection Lot Created

PP-QM Integration

Goods Receipt from Production Executed

PP-QM Integration

Inspection Lot for GR from Production Created

PP-MM Integration

Procurement Data in Material Master

PP-MM Integration

Material Reservations against Production Order
Components

PP-MM Integration

Material Document-Goods Issue Against Production Order

PP-MM Integration

Material Document-Goods Receipt Against Production Order

PP-SD Integration

Sales Order for Make To Order Production

Display Standard Order 27: Overview

Standard Order	27		Net value		50,000.00	USD
Sold-to party	100010	MILLION AIR / 8501 Telephone Rd / Houston 77061				
Ship-to party	100010	MILLION AIR / 8501 Telephone Rd / Houston 77061				
PO Number	20150222		PO date	01.02.2015		

Sales / Item overview / Item detail / Ordering party / Procurement / Shipping / Reason for rejection

All items

Item	Material	Plnt	Confirmed Qty	SU	Mat.Av.Dt.	SLCa	RqTy	I.	A	D	Delivery D...	N..	ATP quantity	Loading D...	Route	P..	D..
10	520	2010	0	EA	23.02.2015	CP	KEB			D	23.02.2015	✓	0	23.02.2015			0
			500	EA	09.03.2015	CP				D	09.03.2015	✓		09.03.2015			

PP-SD Integration

Production Order for Make To Order Production

PP-SD Integration

Stock Requirements List in Make To Order Production

PP-SD Integration

Stock Requirements List of Components in Make To Order Production

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Let Me SAP PP-QM Integration

- MM02-Activate In-process Inspection Type "03"

- MM03-Activate GR from Production Inspection Type "04"

- CO01-Create Production Order

- CO02-Release Production Order

- QA33-Display In-process Inspection Lot type "03"

- MIGO-Perform Goods Receipt for Production Order

- QA33-Display GR from Production Inspection Lot type "04"

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- MM02-Activate Procurement Data in MRP2 view

- CO01- Create Production Order

- CO02-Release Production Order

- MD04- Display Reservations for Components

- MIGO-Goods Issue for Production Order-Movement Type-261

- MIGO-Display Goods Issue Document

- CK11N-Confirm Production Order

- MIGO-Goods Receipt for Production Order-Movement Type-101

- MIGO-Display Goods Receipt Document

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- MM02-Activate Sales Data in Sales Views

- VA01-Create Standard Sales Order with Requirement Type Make to Stock

- CO08- Create Production Order with reference to above Sales Order

- CO03-Release Production Order

- MD04- Display Stock & Requirements List

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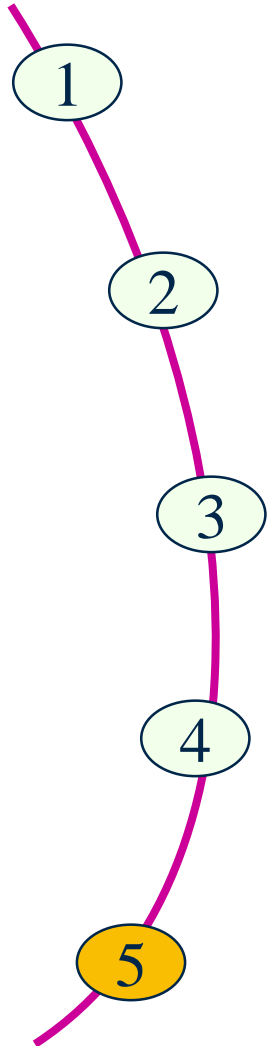
Cross Functional Transaction Codes

- MM02-Activate Data in Sales Views
- MM02-Activate Inspection Type "03" and "04" in Quality Management View
- QP03- Display Inspection Plan
- QA03-Display Inspection Lot
- QA33-Display Quality Management Work List
- MMBE-Stock Overview
- ME51N-Create Purchase Requisition
- ME21N- Create Purchase Order
- MIGO-Goods Movements (All Types)
- MB51- Material Documents List
- VA01- Create Sales Order

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Q & A

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THANK YOU