S4280 - S/4HANA Manufacturing for Production Engineering and Operations (PEO) Training

Duration: **4 Day**

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Overview

Course based on software release:

- S/4HANA 2021 (with enabled PEO functions)
- SAP 3D Visual Enterprise Structure Manager 1.9 (VEMP)
- SAP 3D Visual Enterprise Generator 9.0
- SAP 3D Visual Enterprise Viewer 9.0

Prerequisites

Essential

- Basic knowledge of manufacturing life cycle

Recommended

- SAP ERP (MM, PP, QM modules)

Who Should Attend

- Solution Consultants
- Project Leaders
- Project Team Members
- System integrators who setup and operate PEO in a business network

What You Will Learn

- This course will prepare you to:
  - Explain key features and benefits of SAP S/4HANA Manufacturing for Production Engineering and Operations (PEO)
  - Explain the business processes that SAP S/4HANA PEO supports around production engineering and production operations
  - Configure product and process master data, such as version- controlled manufacturing BOMs and routings that include all information needed for production planning, production costing, and shop floor execution
  - Execute manufacturing change management to orchestrates the end-to- end production engineering process
  - Execute serialized and non-serialized production process using role-specific UIs for production operators

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Outline

- Manufacturing Engineering
  - Create EBOMs in S/4HANA
  - Manage Engineering Snapshots (Multi-level EBOM structures) in S/4HANA
  - Handover EBOM to MBOM using VEMP
  - Define and create various planning scopes
  - Define Model/Unit effectivity for BOM, routing and production order
  - Define major assemblies and installation kit structures
  - Use project system to maintain WBS networks with relationship to installation order
  - Create MBOMs with effectivity values and ref. points and assign them to network activities
  - Run MRP for planned order
  - Convert planned order to production order
  - Create installation orders for different model units
  - Explain version management concept
  - Introduce an engineering change
  - Explain the concept of change records
  - Analyze change impact on various objects
- Manufacturing Process Planning
  - Explain how operation activities in S/4HANA Manufacturing relate to PEO
  - Define qualifications to be checked during the execution of production process
  - Define buyoff and buyoff items in S/4HANA for PEO
  - Define shop-floor routing with various assignments to operation activities, such as inspection characteristics, qualifications, buyoffs, etc.
  - Allocate components with reference to 3D models
  - Configure in-line work instructions with embedded data collection for the shop floor processes
  - Use standard texts for work instructions
  - Create orders and operation activities for production execution
  - Define reason codes and reason code groups for operator´s actions
  - Explain status and action schema (SAS) and use custom-defined SAS's in the shop floor routing
  - Define action type handlers
  - Set up routings for disassembly scenarios
- Extended Production Operations
  - Distribute work between production operators
  - Use personal work queues and other apps
  - Track serialized products and collect data about them using role- specific UIs for production operators
  - View work instruction with embedded references to 3D model, components and inspection characteristic tables
  - Use in-line work instructions with embedded data collection capability to record component and quality information
  - Record defects during production process
  - Track labor actions
  - Claim and register tools during production process
  - View PMI data in attached 3D view
  - Perform operation activities for disassembly
  - Split shop floor order into multiple orders during production execution
- Production Monitoring
  - View and analyze as-built and genealogy details about serialized products

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- Use extended action log report to derive additional details about time and reason for an action