kod szkolenia: SAP/S4280 / ENG

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

- This course provides an in-depth functional overview of the SAP S/4HANA Manufacturing for Production Engineering and Operations (PEO) solution. PEO bridges the gap between product engineering and production operations by converting the product design into a production process design to serve as the basis for production order management and shop floor execution. Course participants will gain the knowledge and skills necessary to configure the engineering and production data that is required to build a product, control the product lifecycle, track changes, and analyze the impact of those changes.
- During the course participants will use Visual Enterprise Planner (VEMP) to convert the design driven EBOM structure into a manufacturing, built-sequence driven MBOM structure. They will use the Manufacturing Change Records to orchestrate the whole production engineering process and keep track of all changes made to manufacturing objects. Finally, they will create version-controlled shop floor routings to define information needed for production planning, production costing, and shop floor execution.
- Participants will run the production execution process using responsive, role-specific and self-adjusting UIs to enable production operators to track serialized parts, collect product and process information, and interactively work with 3D models. This will result in the ability to identify required components and trigger change alerts that will provide just in time alerts to recent changes in the production process or product structures.

Odbiorcy szkolenia

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

Korzyści

- 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

Program szkolenia

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

Oczekiwane przygotowanie uczestnika

Essential

- Basic knowledge of manufacturing life cycle

Recommended

- SAP ERP (MM, PP, QM modules)

Czas trwania

4 dni / 30 godzin

Język

- Materiały: angielski
- Szkolenie: angielski