SAP PPDS – Production Planning & Detailed Scheduling Training

COURSE CONTENT

About Multisoft

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About Course

SAP PPDS – Production Planning & Detailed Scheduling is a critical component of SAP S/4HANA that enables organizations to plan, schedule, and execute manufacturing operations efficiently. The SAP PPDS training by Multisoft Systems equips professionals with the skills to manage production resources, balance workloads, and optimize manufacturing performance using real-time data and advanced scheduling tools.

Module 1: Introduction to SAP PPDS

- ✓ What is PPDS and where it fits in SAP S/4HANA manufacturing?
- ✓ PPDS vs classic PP/MRP - key differences
- ✓ Planning levels - strategic, tactical, operational
- ✓ Core PPDS objects and terminology (orders, resources, modes, pegging)

Module 2: PPDS Process Overview - End-to-End Flow

- ✓ Demand sources (sales orders, forecasts, planned independent requirements)
- ✓ From demand to supply - planning to execution
- ✓ Make-to-Stock vs Make-to-Order in PPDS
- ✓ Planning versions and planning scenarios

Module 3: PPDS Master Data Fundamentals

- ✓ Material master settings relevant for PPDS
- ✓ BOM and routing - impact on planning and scheduling
- ✓ Work centers vs resources - concept mapping
- ✓ Production versions and recipes
- ✓ Calendars, shifts, breaks, and operating times

Module 4: PPDS in SAP S/4HANA - Integration Basics

- ✓ Integration with SAP PP (production orders, process orders)
- ✓ Integration touchpoints with MM, SD, QM, PM (high level)
- ✓ Data consistency and planning relevance checks

Module 5: Demand Management in PPDS

- ✓ Demand inputs and prioritization
- ✓ Requirement strategies and consumption logic (conceptual)
- ✓ Demand visibility and requirement evaluation

Module 6: Material Requirements Planning with PPDS

- ✓ MRP vs PPDS planning runs - concept and use
- ✓ Planning methods - reorder point, forecast-based, time-phased (overview)
- ✓ Planned order creation and conversion principles
- ✓ Lot sizing and lead time fundamentals

Module 7: PPDS Orders and Order Management

- ✓ Planned orders, production/process orders - lifecycle
- ✓ Order parameters affecting scheduling (dates, quantities, priorities)
- ✓ Order rescheduling and order changes
- ✓ Fixing and freezing orders for plan stability

Module 8: Capacity Planning and Resource Planning

- ✓ Capacity evaluation - load vs available capacity
- ✓ Finite vs infinite scheduling concepts
- ✓ Capacity leveling approaches
- ✓ Bottleneck identification and resolution methods

Module 9: Detailed Scheduling - Sequencing and Dispatching

- ✓ Operation scheduling principles (forward/backward scheduling)
- ✓ Sequence-dependent setup times - concept and impact
- ✓ Scheduling parameters - floats, constraints, overlaps
- ✓ Dispatching rules and sequencing strategies (basic to advanced)

Module 10: Planning Heuristics in PPDS

- ✓ What heuristics are and when to use them?
- ✓ Common heuristic planning scenarios

✓ Heuristic execution logic - priorities and selection criteria

✓ Practical planning run examples (planned orders, rescheduling)

Module 11: Optimizer Concepts (Overview)

✓ What the optimizer does and typical use cases?

✓ Key objectives - minimize lateness, setups, maximize utilization

✓ Constraints and optimization parameters (high-level understanding)

✓ When heuristics are better than optimizer (decision guidance)?

Module 12: Pegging and Product Availability

✓ Pegging relationships - demand-supply links

✓ Dynamic vs fixed pegging concepts

✓ Using pegging to manage priorities and shortages

✓ Impact of changes in demand or supply on pegging

Module 13: Alerts, Exceptions, and Planning Quality

✓ Typical exceptions - shortages, capacity overloads, late orders

✓ Alert monitoring concepts and corrective actions

✓ Planning KPIs - schedule adherence, utilization, lead time reduction

Module 14: PPDS Execution Readiness

✓ From planned orders to production/process orders, Release and dispatch readiness

✓ Coordination with shop floor execution (conceptual alignment)

Module 15: Reporting and Planning Analysis

✓ Key planning views and evaluation approaches

✓ Capacity and order situation analysis

✓ Pegging-based analysis for root-cause and prioritization

✓ Planning snapshots and scenario comparison (conceptual)