

TECHSCHOLARSS EDUCATION & TRAINING SERVICES PVT LTD

SAP APO – Advanced Planning and Optimization Masterclass

SAP APO Training Program

Supply Chain Planning • Demand Planning • Supply Network Planning • PP/DS • Global ATP • CIF • Forecasting • Optimization • Integration • Real-World Planning Scenarios

Course Overview

The TechScholarss SAP APO Masterclass is an industry-focused supply-chain planning program covering the major APO planning capabilities: Demand Planning (DP), Supply Network Planning (SNP), Production Planning & Detailed Scheduling (PP/DS), Global Available-to-Promise (GATP), and Core Interface (CIF). The program focuses on integrated demand, supply, production and fulfillment planning, supported by APO master data, planning structures, alerts, forecasting and analytics.

The curriculum is based on the TechScholarss SAP APO Course Curriculum and is organized to support practical planning understanding, integration knowledge, real-world scenarios and placement preparation.

Course Objectives

- Understand SAP APO architecture, planning concepts and supply-chain processes.
- Build and maintain APO master data and planning structures.
- Create demand plans using planning areas, planning books, key figures and forecasting techniques.
- Perform Supply Network Planning using heuristics, deployment and optimization concepts.
- Understand PP/DS master data, heuristics, capacity planning and detailed scheduling.
- Understand GATP availability checks, product allocation and backorder processing.
- Configure and monitor CIF-based integration between SAP ERP/S/4HANA and APO landscapes.
- Use alerts, exception monitoring, KPIs and planning analytics for decision support.
- Apply APO capabilities to end-to-end demand-to-supply planning scenarios.

Program Highlights

- Live planning-book oriented learning
- Demand, supply and production planning coverage
- DP forecasting and SNP optimization concepts
- PP/DS capacity and detailed scheduling
- GATP order-promising concepts
- CIF integration and monitoring
- Real-world supply-chain scenarios and interview preparation

1. SAP APO Introduction & Supply Chain Planning

Tools Covered: SAP APO, SAP SCM, Supply Chain Planning

- SAP APO overview and business purpose
- Advanced planning versus traditional ERP planning
- Supply-chain planning process: Demand, Supply, Production and Fulfillment
- APO components and planning horizons
- APO planning architecture and system landscape
- Planning areas, master data and transactional data overview
- Roles of planners, consultants and support teams

2. APO Master Data & Planning Structures

Tools Covered: Product, Location, Resource, PDS/PPM, Transportation Lane

- Product and location master data
- Resources and resource capacity
- Production Process Model (PPM) / Production Data Structure (PDS)
- Transportation lanes and sourcing relationships
- Planning object structures and characteristics
- Key figures, time buckets and planning versions
- Master-data consistency and planning relevance

3. Demand Planning (DP)

Tools Covered: SAP APO-DP, Planning Book, Data View

- Demand Planning architecture and business process
- Planning Object Structure (POS)
- InfoCubes, characteristics and key figures
- Planning areas and time-series data
- Planning books and data views
- Univariate statistical forecasting
- Causal and composite forecasting concepts
- Promotion planning and demand sensing concepts
- Forecast release to supply planning
- Macros, alerts and background processing

4. Supply Network Planning (SNP)

Tools Covered: SAP APO-SNP, Planning Book, Heuristics, Optimizer

- SNP architecture and planning process
- SNP master data and network model
- Planning books, data views and key figures
- SNP heuristics and supply planning runs
- Deployment planning
- SNP Optimizer concepts
- Constraints, costs and service-level considerations
- Transportation Load Builder (TLB) concepts
- Supply planning alerts and exception handling

5. Production Planning & Detailed Scheduling (PP/DS)

Tools Covered: SAP APO-PP/DS, PDS/PPM, Planning Board, Heuristics, Optimizer

- PP/DS architecture and planning process
- PP/DS master data and production structures
- Production Process Model / Production Data Structure
- Resource and capacity planning
- PP/DS heuristics
- Detailed scheduling strategies
- PP/DS planning board
- Optimizer concepts and constraint handling
- Order sequencing and schedule adjustment
- Integration of PP/DS with supply planning

6. Global Available-to-Promise (GATP)

Tools Covered: SAP APO-GATP, Availability Check, Product Allocation

- GATP overview and business purpose
- Product availability check
- Rules-based ATP concepts
- Check instructions and availability logic
- Product allocation concepts
- Backorder processing
- Supply and demand matching
- Order-priority and shortage-management scenarios

7. APO Alerts, Monitoring & Planning Analytics

Tools Covered: APO Alerts, Planning Books, Reporting, KPIs

- Alert monitoring and exception management
- Planning alerts and planner notifications
- Forecast accuracy concepts
- Forecast error measurement
- MAPE, bias and forecast evaluation
- Consensus demand planning
- Sales and Operations Planning overview

- Demand-supply reconciliation
- Planning dashboards and KPI reporting
- Management reporting for supply-chain decisions

8. SAP APO Core Interface (CIF)

Tools Covered: Core Interface (CIF), SAP ERP, SAP S/4HANA

- CIF architecture and integration purpose
- Integration models
- Master-data transfer between ERP/S/4HANA and APO
- Transaction-data synchronization
- Planning-result transfer and execution handoff
- Integration monitoring and error handling
- Data consistency and reconciliation concepts

9. APO Master Data Consistency & Integration Processes

Tools Covered: CIF, Product, Location, Resource, PDS/PPM

- Master-data synchronization and validation
- Product, location and resource consistency
- PDS/PPM integration considerations
- Transportation lanes and sourcing relationships
- Transactional-data consistency
- End-to-end planning data flow
- Troubleshooting common data-transfer issues

10. Integration with SAP ERP / S/4HANA & Logistics

Tools Covered: CIF, SAP MM, PP, SD, ECC/S/4HANA

- APO integration with ERP and S/4HANA landscapes
- Integration with SAP MM procurement processes
- Integration with SAP PP production planning
- Integration with SAP SD sales processes
- Master-data synchronization
- Transaction-data synchronization
- Planning-result transfer and execution handoff
- Monitoring integrated end-to-end processes

11. SAP APO Administration, Support & Troubleshooting

Tools Covered: APO Monitoring, CIF Monitoring, Background Jobs

- Planning job scheduling and monitoring
- Process-chain and background-job concepts
- CIF error monitoring
- Data consistency checks
- Performance and planning-run troubleshooting
- Common DP, SNP and PP/DS planning issues
- Support-ticket analysis and root-cause approach
- Transport and change-management concepts

12. Real-World SAP APO Projects & Placement Preparation

Tools Covered: SAP APO DP, SNP, PP/DS, GATP, CIF

- Demand forecasting and forecast-release project
- Supply network planning and deployment project
- PP/DS capacity and detailed-scheduling project
- GATP availability and shortage-management scenario
- CIF master-data and transaction-data integration project
- End-to-end demand-to-supply planning scenario
- SAP APO project documentation and portfolio preparation
- Resume building and LinkedIn optimization
- Scenario-based technical interview preparation
- Mock interviews and HR preparation

Tools & Technologies Covered

- SAP APO (Advanced Planning and Optimization)
- SAP APO Demand Planning (DP)
- SAP APO Supply Network Planning (SNP)
- SAP APO Production Planning & Detailed Scheduling (PP/DS)
- SAP APO Global Available-to-Promise (GATP)
- Core Interface (CIF)
- Planning Books, Data Views and Key Figures
- Heuristics, Deployment, TLB and Optimizer concepts
- Product, Location, Resource and PDS/PPM master data
- SAP ERP / SAP S/4HANA integration concepts
- SAP MM / PP / SD integration
- Alerts, Macros, Background Jobs and Reporting

Real-World SAP APO Projects

- Demand Forecasting & Forecast Release Project
- Supply Network Planning and Deployment Project
- PP/DS Capacity and Detailed Scheduling Project
- GATP Availability and Shortage Management Scenario
- CIF Master Data and Transaction Data Integration Project
- End-to-End Demand-to-Supply Planning Scenario
- Planning Alerts and KPI Reporting Scenario
- APO Support and Troubleshooting Case Study

Resume Building & Interview Preparation

- SAP APO Resume Preparation
- LinkedIn Profile Optimization
- SAP APO Project Profile Building
- Business Process Explanation
- Demand Planning and Forecasting Questions
- SNP Heuristics, Optimizer and Deployment Questions
- PP/DS Capacity and Detailed Scheduling Questions
- GATP and Availability Check Questions
- CIF Integration Questions
- APO Monitoring and Troubleshooting Questions
- Scenario-Based SAP Questions
- Mock Interviews and HR Preparation Sessions

Career Opportunities After This Program

- SAP APO Consultant
- SAP SCM / Supply Chain Planning Consultant
- SAP APO DP Consultant
- SAP APO SNP Consultant
- SAP APO PP/DS Consultant
- SAP GATP Consultant
- SAP Supply Planning Analyst
- Demand Planning Consultant
- Supply Chain Business Analyst

- SAP Functional Consultant
- SAP Implementation Consultant
- SAP Application Support Consultant

Why Choose TechScholarss?

- Industry-oriented SAP APO curriculum
- Hands-on planning and configuration practice
- Real-world supply-chain scenarios
- Live project-based learning
- Experienced trainers
- Flexible online and offline batches
- Resume and interview preparation
- Internship and placement assistance

Certification

Students completing the program can receive a TechScholarss SAP APO Course Certificate, subject to the institute's completion criteria.

Program Outcome

By the end of this program, learners should be able to understand SAP APO architecture and integrated supply-chain planning, work with APO master data and planning structures, perform Demand Planning, Supply Network Planning, PP/DS and GATP activities, understand CIF integration with ERP/S/4HANA, monitor planning exceptions, analyze KPIs and apply APO concepts to real-world planning scenarios.

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