

SAP ABAP on Transportation Management Training

COURSE CONTENT

GET IN TOUCH



Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multisoftsystems.com



www.multisoftsystems.com

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

SAP ABAP on Transportation Management training by Multisoft Systems helps you build ABAP skills for SAP TM implementations and support. You begin with TM technical architecture, common namespaces, data model basics and how freight orders, bookings and charges are stored and processed. Then you develop TM-focused objects such as reports, ALV outputs, forms, enhancements and custom validations using BADIs, user exits and enhancement frameworks.

Module 1 - Introduction to SAP TM for ABAP Developers

- ✓ SAP TM overview and end-to-end process flow
- ✓ Key TM objects: Freight Order, Freight Unit, Booking, Charges, Settlement
- ✓ TM technical landscape and relevant components (/SCMTMS/*)
- ✓ Navigation for developers: transactions, tables, logs, monitoring basics

Module 2 - TM Data Model and Technical Foundations

- ✓ TM organizational data and master data touchpoints
- ✓ Document flow and object relationships in TM
- ✓ Reading TM documents via standard APIs vs direct table access
- ✓ Best practices for TM development and naming conventions

Module 3 - ABAP Essentials Refresher for TM Development

- ✓ Open SQL patterns used in logistics objects
- ✓ Internal tables, performance-safe loops, field symbols
- ✓ Modularization: forms, function modules, classes
- ✓ Exception handling and message handling patterns

Module 4 - Developing TM Reports and ALV Outputs

- ✓ TM operational reports (FO/FU, execution, tracking, charges)
- ✓ ALV (SALV/CL_GUI_ALV_GRID) for TM reporting
- ✓ Selection-screen design for logistics parameters
- ✓ Download/export, variants, authorizations basics

Module 5 - Enhancements in SAP TM

- ✓ Enhancement framework overview for TM
- ✓ BAdIs, user exits and enhancement spots (where applicable)
- ✓ Implementing validations, defaulting and custom checks

Module 6 - BOPF Concepts for SAP TM Developers

- ✓ BOPF fundamentals: BO, nodes, associations, keys
- ✓ Actions, determinations and validations (concept + usage)
- ✓ Reading/updating TM BOs safely (transaction manager concepts)
- ✓ Common BOPF debugging approach for TM

Module 7 - Forms and Output Management for TM

- ✓ Output requirements in transportation (documents, labels, confirmations)
- ✓ Form technologies overview (SmartForms / Adobe / output framework basics)
- ✓ Designing TM document layouts (header/item data mapping)
- ✓ Triggering outputs and troubleshooting output issues

Module 8 - Interfaces and Integration for SAP TM

- ✓ Integration scenarios: ERP/S/4, carriers, tracking systems
- ✓ RFC concepts and function module interfaces
- ✓ IDoc basics for logistics integration (structure, monitoring, reprocessing)
- ✓ Proxy/web service concepts and OData overview (as used in projects)
- ✓ File-based integration patterns and error handling

Module 9 - TM UI Enhancements and Service Enablement

- ✓ Enhancing fields and screens in TM UI (project-based approach)
- ✓ Exposing/consuming services conceptually for TM apps
- ✓ Basic OData/service testing and validation
- ✓ Common pitfalls and standard troubleshooting steps

Module 10 - Debugging and Production Support in TM

- ✓ Debugging TM documents and processing flows
- ✓ Logs and monitors (where to check errors and why)
- ✓ Short dumps, update failures, queue/background job issues

- ✓ Transport management, version control hygiene and documentation

Module 11 - Performance Tuning and Code Quality

- ✓ Performance-safe Open SQL and internal table techniques
- ✓ Runtime analysis and tracing (ST05/SAT concepts)
- ✓ Avoiding common TM performance bottlenecks
- ✓ Clean ABAP standards, reusable classes and test-ready code