

SAP OData Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

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About Course

SAP OData Training provides professionals with the knowledge required to develop, expose, and manage RESTful services within SAP environments. The course focuses on SAP Gateway, OData modeling, service implementation, CRUD operations, metadata management, SAP Fiori integration, and service optimization. Through practical exercises and real-world business scenarios, participants will understand how SAP OData simplifies communication between SAP systems and modern web, mobile, and enterprise applications.

Module 1: Introduction to SAP OData

- ✓ Overview of SAP OData
- ✓ SAP Gateway Architecture
- ✓ OData Protocol Fundamentals
- ✓ RESTful Services in SAP
- ✓ OData Service Lifecycle
- ✓ SAP NetWeaver Gateway
- ✓ Development Environment Setup

Module 2: SAP Gateway Foundation

- ✓ Gateway Service Builder (SEGW)
- ✓ Project Creation
- ✓ Data Model Design
- ✓ Entity Types
- ✓ Entity Sets
- ✓ Associations
- ✓ Navigation Properties

Module 3: OData Service Development

- ✓ Service Generation
- ✓ Runtime Artifacts
- ✓ Data Provider Class (DPC)
- ✓ Model Provider Class (MPC)
- ✓ Service Registration

- ✓ Service Activation
- ✓ Gateway Client Testing

Module 4: CRUD Operations

- ✓ Create (POST)
- ✓ Read (GET)
- ✓ Update (PUT/MERGE)
- ✓ Delete (DELETE)
- ✓ Entity Handling
- ✓ Error Handling
- ✓ Response Processing

Module 5: Advanced OData Operations

- ✓ Function Imports
- ✓ Actions
- ✓ Deep Entity Operations
- ✓ Expand Operations
- ✓ Filter Options
- ✓ Sorting
- ✓ Paging and Query Options

Module 6: SAP Fiori Integration

- ✓ OData Consumption in SAP Fiori
- ✓ SAPUI5 Data Binding

- ✓ OData Models
- ✓ CRUD from Fiori Applications
- ✓ Metadata Consumption
- ✓ Fiori Launchpad Integration
- ✓ End-to-End Connectivity

Module 7: Security and Authorization

- ✓ Authentication Methods
- ✓ Authorization Checks
- ✓ CSRF Protection
- ✓ Secure Service Access
- ✓ User Authentication
- ✓ Data Security
- ✓ Best Practices

Module 8: Performance Optimization

- ✓ Service Performance Analysis
- ✓ Batch Processing
- ✓ Metadata Optimization
- ✓ Caching Techniques
- ✓ Payload Optimization
- ✓ Performance Monitoring
- ✓ Tuning Best Practices

Module 9: Debugging and Troubleshooting

- ✓ Gateway Error Logs
- ✓ Service Debugging
- ✓ Backend Debugging
- ✓ Runtime Analysis
- ✓ Common OData Errors
- ✓ Gateway Monitoring
- ✓ Problem Resolution Techniques

Module 10: Enterprise Implementation Project

- ✓ Business Scenario Development
- ✓ Custom OData Service Creation
- ✓ SAP Fiori Integration
- ✓ Security Configuration
- ✓ Service Testing
- ✓ Performance Validation
- ✓ Deployment Best Practices
- ✓ Final Implementation Project