

SAP Cloud Integration for Data Services (SAP CIDS)

COURSE CONTENT

GET IN TOUCH



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About Multisoft

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About Course

SAP Cloud Integration for Data Services (SAP CIDS) Training is designed to help professionals understand cloud-based data integration, replication, transformation, and workflow management across SAP and non-SAP environments. The course covers source-to-target data movement, connectivity, task design, monitoring, scheduling, and troubleshooting processes. Participants will gain practical knowledge of how to manage data integration workflows efficiently, improve data consistency across systems, and support reporting, analytics, migration, and enterprise integration initiatives through structured cloud-based data movement processes.

Module 1: Introduction to SAP Cloud Integration for Data Services

- ✓ Overview of SAP CIDS
- ✓ Role of Data Integration in Enterprise Landscapes
- ✓ SAP CIDS Architecture and Components
- ✓ Cloud-Based Data Movement Concepts
- ✓ SAP and Non-SAP Integration Scenarios
- ✓ Key Business Use Cases of SAP CIDS

Module 2: SAP CIDS Environment and Navigation

- ✓ User Interface Overview
- ✓ Repository and Project Structure
- ✓ Working with Tasks and Data Flows
- ✓ Integration Objects and Components
- ✓ Navigation Best Practices
- ✓ Understanding the Development and Execution Environment

Module 3: Source and Target Connectivity

- ✓ Connecting SAP Source Systems
- ✓ Connecting Databases and Flat File Sources
- ✓ Connecting Non-SAP Applications
- ✓ Target System Configuration
- ✓ Connection Setup and Validation

- ✓ Managing Source-to-Target Communication

Module 4: Data Integration Fundamentals

- ✓ Data Extraction Concepts
- ✓ Source-to-Target Data Flow Design
- ✓ Data Load and Replication Approaches
- ✓ Batch and Scheduled Data Movement
- ✓ Data Mapping Concepts
- ✓ Integration Workflow Lifecycle

Module 5: Data Flow and Task Design

- ✓ Creating Data Integration Tasks
- ✓ Designing Data Flows
- ✓ Task Configuration and Execution Parameters
- ✓ Source and Target Mapping
- ✓ Reusable Components and Objects
- ✓ Managing Task Dependencies

Module 6: Data Transformation and Mapping

- ✓ Transformation Fundamentals
- ✓ Column Mapping and Field-Level Transformations
- ✓ Filtering, Sorting, and Aggregation

- ✓ Data Cleansing and Standardization Concepts
- ✓ Business Rule-Based Transformations
- ✓ Data Conversion and Formatting Techniques

Module 7: Replication and Data Movement Processes

- ✓ Replication Task Concepts
- ✓ Initial and Incremental Data Loads
- ✓ Managing Data Synchronization
- ✓ Real-Time vs Batch-Oriented Data Movement Concepts
- ✓ Replication Monitoring
- ✓ Data Consistency and Transfer Validation

Module 8: Workflow Execution and Scheduling

- ✓ Executing Integration Tasks
- ✓ Managing Job Runs and Task Sequences
- ✓ Scheduling Data Integration Jobs
- ✓ Handling Recurring Data Loads
- ✓ Workflow Dependencies and Execution Control
- ✓ Run-Time Monitoring of Jobs

Module 9: Monitoring and Operational Support

- ✓ Monitoring Dashboards and Execution Status

- ✓ Reviewing Job Logs and Execution Details
- ✓ Identifying Failed or Delayed Tasks
- ✓ Alert Handling and Operational Monitoring
- ✓ Exception Tracking and Support Coordination
- ✓ Monitoring Best Practices

Module 10: Troubleshooting and Error Handling

- ✓ Common Integration Errors
- ✓ Source Connection Issues
- ✓ Transformation and Mapping Errors
- ✓ Replication Failures and Data Load Issues
- ✓ Troubleshooting Execution Problems
- ✓ Corrective Actions and Reprocessing Strategies

Module 11: Performance Optimization and Best Practices

- ✓ Optimizing Data Flow Performance
- ✓ Efficient Task Design Practices
- ✓ Reducing Data Processing Overhead
- ✓ Managing Large Data Volumes
- ✓ Performance Monitoring Techniques
- ✓ Best Practices for Reliable Integration Execution

Module 12: Security, Governance, and Administration

- ✓ Access Control and User Roles
- ✓ Data Security Considerations in Integration
- ✓ Governance of Integration Tasks and Workflows
- ✓ Administrative Monitoring and Support
- ✓ Change Management for Integration Processes
- ✓ Operational Control and Audit Readiness

Module 13: Real-World Integration Scenarios and Use Cases

- ✓ SAP-to-SAP Data Integration Scenarios
- ✓ SAP-to-Non-SAP Integration Use Cases
- ✓ Data Movement for Reporting and Analytics
- ✓ Migration and Synchronization Examples
- ✓ Enterprise Integration Workflow Scenarios
- ✓ End-to-End SAP CIDS Process Walkthroughs