IICS Data Integration & Application Integration Syllabus

Module 1: Introduction to IICS

- Overview of Informatica Intelligent Cloud Services (IICS)

- Understanding IICS Architecture & Components

- Key Features & Benefits of IICS

- Comparing IICS with On-Premise Informatica PowerCenter

Module 2: Data Integration (DI) Basics

- Understanding Cloud Data Integration

- Types of Transformations in IICS

- Creating Mappings and Mapping Tasks

- Source and Target Configurations

- Using Cloud Secure Agents

Module 3: Data Ingestion & Connectivity

- Connecting to On-Prem & Cloud Data Sources

- Working with REST/SOAP APIs

- Data Ingestion from AWS S3, Azure Blob, Google Cloud Storage

- Handling JSON, XML, Flat Files, and Databases

Module 4: Advanced Data Integration

- Parameterization in Mappings

- Task Flows & Workflow Orchestration

- Incremental Data Processing

- Error Handling & Debugging Mappings

- Performance Optimization & Best Practices

Module 5: Application Integration (AI) Basics

- Overview of IICS Application Integration

- Understanding Process Designer & API Manager

- Differences between DI & AI in IICS

Module 6: Building API & Web Services

- Creating & Managing REST APIs in IICS

- Working with SOAP Web Services

- Using API Gateway & API Policies

- Real-time Data Processing with Application Integration

Module 7: Event-Driven Integration

- Configuring Event-Driven Triggers

- Message Queues (Kafka, JMS, AMQP)

- Real-time Data Sync Between Applications

Module 8: Security & Administration

- User Management & Roles in IICS

- Secure Agent Deployment & Monitoring

- Logging, Auditing, and Security Policies

Module 9: Real-World Use Cases & Hands-On

- End-to-End Data Pipeline Implementation

- Real-time Application Integration Scenarios

- Troubleshooting & Debugging Common Issues

- Best Practices & Performance Tuning