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Oracle Integration Cloud (OIC) Training Curriculum Online by Certified Consultant

Module 1: Introduction to Oracle Integration Cloud (OIC)

- Overview of Oracle Integration Cloud
- Cloud Integration Fundamentals
- OIC Architecture and Components
- OIC Service Offerings
- Integration Use Cases
- OIC Environment Setup
- Oracle Cloud Platform Overview
- OIC Navigation and User Interface

Module 2: OIC Platform Fundamentals

- OIC Console Overview
- Creating and Managing Integrations
- OIC Connectivity Framework
- Integration Patterns
- Packages and Projects
- Monitoring Dashboard
- Instance Tracking
- OIC Best Practices

Module 3: Oracle Integration Cloud Connectivity

- Understanding Adapters
- Oracle ERP Cloud Adapter
- Oracle HCM Cloud Adapter
- Oracle SCM Cloud Adapter
- Oracle Database Adapter
- FTP/SFTP Adapter
- REST Adapter
- SOAP Adapter

Module 4: Integration Design and Development



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- Creating App-Driven Integrations
- Scheduled Integrations
- File-Based Integrations
- Event-Driven Integrations
- Publish/Subscribe Patterns
- Business Event Integration
- Orchestration Design
- Integration Lifecycle Management

Module 5: REST and SOAP Web Services

- REST API Fundamentals
- SOAP Web Services Fundamentals
- Consuming REST Services
- Exposing REST APIs
- Consuming SOAP Services
- SOAP Fault Handling
- API Testing Techniques
- Service Security

Module 6: Data Mapping and Transformation

- Mapper Overview
- Field Mapping Techniques
- Data Transformation Functions
- Lookup Tables
- Data Enrichment
- Complex Data Structures
- XSLT Transformations
- Error Handling During Mapping

Module 7: Oracle ERP Cloud Integration

- ERP Cloud Integration Overview
- Financials Integration
- Procurement Integration
- Project Management Integration
- Inventory Integration
- Data Synchronization
- ERP Business Events
- Real-Time ERP Integrations



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Module 8: Oracle HCM Cloud Integration

- HCM Integration Fundamentals
- Employee Data Integration
- Payroll Integration
- Recruitment Integration
- Workforce Management Integration
- HCM Extracts
- HCM Business Events
- HCM Data Synchronization

Module 9: Oracle SCM Cloud Integration

- SCM Integration Overview
- Procurement Cloud Integration
- Inventory Management Integration
- Order Management Integration
- Supply Planning Integration
- Supplier Data Integration
- SCM Business Events
- SCM Process Automation

Module 10: File-Based Data Integration

- File Processing Fundamentals
- FTP and SFTP Integration
- CSV File Processing
- XML File Processing
- Flat File Integration
- File Transfer Automation
- File Validation Techniques
- Error Handling for Files

Module 11: Database Integration

- Oracle Database Adapter
- SQL Operations
- Stored Procedure Integration
- Database Triggers



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- Data Synchronization
- Bulk Data Processing
- Transaction Management
- Database Connectivity Best Practices

Module 12: Process Automation and Workflows

- Introduction to Process Automation
- Business Process Modeling
- Human Workflow Design
- Approval Processes
- Task Management
- Notifications and Alerts
- Workflow Monitoring
- Process Optimization

Module 13: Oracle Visual Builder Integration

- Introduction to Oracle Visual Builder
- OIC and Visual Builder Integration
- REST API Consumption
- UI Development Basics
- Data Binding Techniques
- Application Deployment
- Mobile Application Integration
- End-to-End Application Development

Module 14: Security and Identity Management

- OIC Security Architecture
- Authentication Methods
- OAuth 2.0 Configuration
- Basic Authentication
- API Security
- Identity and Access Management (IAM)
- Certificates and Encryption
- Security Best Practices

Module 15: Error Handling and Monitoring



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- Fault Handling Framework
- Error Recovery Mechanisms
- Exception Handling
- Integration Monitoring
- Logging and Auditing
- Alerts and Notifications
- Troubleshooting Techniques
- Performance Monitoring

Module 16: Advanced OIC Features

- Integration Insight
- Process Insights
- Event-Driven Architecture
- Streaming and Messaging
- Oracle Autonomous Database Integration
- Oracle Analytics Integration
- Advanced Routing Techniques
- Reusable Components

Module 17: OIC DevOps and Migration

- Package Management
- Version Control Concepts
- Environment Migration
- Deployment Automation
- Backup and Recovery
- Continuous Integration and Deployment (CI/CD)
- Lifecycle Management
- DevOps Best Practices

Module 18: OIC Performance Optimization

- Integration Performance Tuning
- Adapter Optimization
- Mapping Optimization
- Large Data Volume Processing
- Scalability Techniques
- Resource Utilization Monitoring
- Security Optimization
- Best Practices



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Module 19: Real-Time Integration Scenarios

- ERP to HCM Integration
- ERP to SCM Integration
- File-to-Database Integration
- REST-to-SOAP Transformation
- Employee Onboarding Integration
- Procurement Automation Scenario
- End-to-End Business Process Automation

Module 20: Capstone Project

- End-to-End OIC Implementation
- Cloud Application Integration
- REST API Development
- ERP and HCM Integration
- Database and File Integration
- Workflow Automation
- Monitoring and Security Configuration
- Final Project Presentation