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Oracle Integration Cloud (OIC)

Module 1: REST Services & API Testing

1. Introduction to REST Services
2. REST Architecture and HTTP Methods
3. GET, POST, PUT, PATCH and DELETE
4. Path Parameters
5. Query Parameters
6. Headers and Request Body
7. HTTP Status Codes
8. JSON Request and Response
9. Testing REST APIs using Postman
10. Testing REST APIs using REST Client
11. Authentication Basics
12. Basic Authentication
13. API Key Authentication
14. Bearer Token / OAuth Overview
15. Practical REST API Testing Exercises

Module 2: Introduction to Oracle Integration Cloud

1. What is Oracle Integration Cloud?
2. OIC Architecture
3. OIC Components
4. Integrations
5. Connections
6. Adapters



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7. Lookups
8. Libraries
9. Packages
10. Agents
11. Integration Patterns
12. Scheduled Integrations
13. Application-Driven Integrations
14. Monitoring and Tracking
15. OIC Console Navigation

Module 3: First OIC Integration

1. Creating an OIC Integration
2. Understanding Integration Patterns
3. Creating REST Trigger
4. Creating REST Invoke
5. Configuring REST Connection
6. Request and Response Configuration
7. Data Mapping
8. Assign Actions
9. Tracking Fields
10. Activate and Test Integration
11. Monitoring Integration Instances
12. Error Handling Basics



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Module 4: REST API Parameters in OIC

1. Path Parameters
2. Query Parameters
3. Header Parameters
4. Request Body
5. Response Body
6. Mapping REST Parameters
7. Path Parameter Example
8. Query Parameter Example
9. POST Request Body Example
10. PATCH Request Example
11. Combining Path + Query + Body
12. Testing REST APIs from Postman

Module 5: OIC with SOAP Services

1. Introduction to SOAP Web Services
2. SOAP vs REST
3. WSDL Concepts
4. SOAP Request and Response
5. Creating SOAP Connections
6. SOAP Trigger in OIC
7. SOAP Invoke in OIC
8. Mapping SOAP Messages
9. Handling SOAP Faults
10. Practical SOAP Integration
11. Testing SOAP Integration using Postman/REST Client



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Module 6: OIC with Oracle ATP Database

1. Introduction to Oracle ATP
2. ATP Architecture
3. Creating ATP Connection in OIC
4. Database Adapter
5. SQL Operations
6. SELECT Operation
7. INSERT Operation
8. UPDATE Operation
9. DELETE Operation
10. Stored Procedure Invocation
11. Parameter Mapping
12. Handling Database Responses
13. REST → OIC → ATP Example
14. ATP → OIC → REST Example

Module 7: OIC ATP – Multiple Invokes

1. Multiple Database Invokes
2. Sequential Invokes
3. Parallel Invokes
4. Insert and Update Scenario
5. Multiple Table Operations
6. Transaction Considerations
7. Commit/Rollback Concepts
8. Error Handling
9. Database Exception Handling



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10. Practical Employee/Department Integration

Module 8: OIC On-Premises Connectivity – Agent Framework – Day 1

1. Introduction to OIC Connectivity Agent
2. Why On-Premises Agent is Required
3. OIC Agent Architecture
4. Agent Groups
5. Agent Installation Overview
6. Agent Configuration
7. Agent Connectivity
8. Agent Monitoring
9. Configuring On-Premises Database Connection
10. OIC → On-Premises Database
11. Practical Database Integration
12. Troubleshooting Agent Connectivity

Module 9: OIC On-Premises Connectivity – Agent Framework – Day 2

1. On-Premises FTP Connectivity
2. On-Premises Database Integration
3. Multiple Agent Connections
4. Agent Group Configuration
5. OIC → Agent → Database
6. OIC → Agent → File System
7. File Processing through Agent
8. Error Handling
9. Agent Monitoring

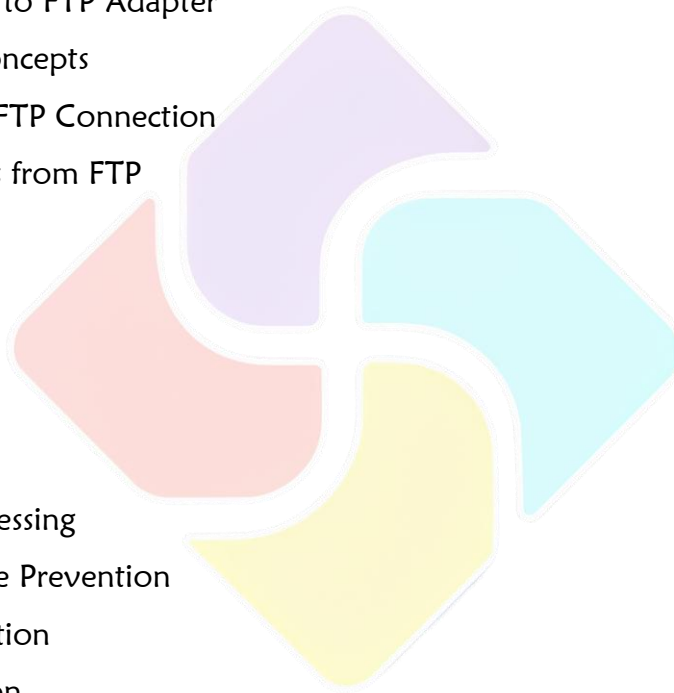


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10. Real-Time Integration Scenario
11. Troubleshooting Common Agent Issues
12. End-to-End On-Premises Integration Lab

Module 10: OIC FTP Server & Notifications

1. Introduction to FTP Adapter
2. FTP/SFTP Concepts
3. Configuring FTP Connection
4. Reading Files from FTP
5. List Files
6. Read File
7. Write File
8. Move File
9. Delete File
10. Archive Processing
11. Duplicate File Prevention
12. Stage File Action
13. File Validation
14. File-to-Database Integration
15. Sending Email Notifications
16. Success Notification
17. Failure Notification
18. FTP → OIC → Notification End-to-End Example





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Module 11: OIC JavaScript & AI API Integration

1. Introduction to JavaScript in OIC
2. JavaScript Actions
3. Passing Input Parameters
4. Returning JavaScript Output
5. String Manipulation
6. JSON Processing
7. Data Transformation using JavaScript
8. JavaScript Practical Examples
9. Introduction to Generative AI APIs
10. OpenAI API Overview
11. Anthropic API Overview
12. API Key Authentication
13. Secure API Key Management
14. OIC → OpenAI API
15. OIC → Anthropic API
16. Processing AI Response
17. Practical AI Integration Example

Module 12: OIC Lookups

1. Introduction to Lookups
2. Why Lookups are Used
3. Creating a Lookup
4. Lookup Codes
5. Lookup Values
6. Static Lookup



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7. Dynamic Mapping Concepts
8. Using Lookups in Integrations
9. Lookup Functions
10. Environment-Specific Values
11. Practical Country/Department Mapping Example

Module 13: OIC Events – Publish & Subscribe

1. Introduction to OIC Events
2. Event-Driven Architecture
3. Publish-Subscribe Pattern
4. Business Events
5. Creating an Event
6. Publishing an Event
7. Subscribing to an Event
8. Event Payload
9. Event-Based Integration
10. Multiple Subscribers
11. Event Monitoring
12. Error Handling
13. End-to-End Publish/Subscribe Example

Module 14: Oracle Fusion Basics, Security & Reporting

1. Fusion Basic Security

1. Introduction to Oracle Fusion Security
2. Users, Roles and Privileges
3. Job Roles and Duty Roles



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4. Data Roles overview
5. Creating a User
6. Assigning Roles to Users
7. Providing Required Access
8. Security Console Basics
9. Testing User Access
10. Common Access and Role Issues

2. BI Publisher (BIP) Reports

1. Introduction to BI Publisher
2. BIP Architecture and Navigation
3. Data Models
4. Creating a Simple SQL Data Set
5. Parameters
6. Creating a Basic BIP Report
7. Report Layout Basics
8. Running and Testing Reports
9. Exporting Report Output
10. BIP Reports in OIC Integration scenarios

3. OTBI Basics

1. Introduction to OTBI
2. BIP vs OTBI
3. Subject Areas
4. Creating a Basic OTBI Analysis
5. Selecting Columns and Filters



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6. Prompts and Views overview
7. Running and Exporting Analysis
8. OTBI Security Basics

Module 15: Oracle FBDI Introduction

1. Introduction to FBDI
2. What is File-Based Data Import?
3. FBDI Architecture
4. FBDI Template
5. FBDI Spreadsheet
6. CSV Files
7. ZIP Files
8. Interface Tables
9. Import Process
10. ESS Jobs
11. UCM Overview
12. FBDI vs HDL
13. FBDI vs REST API
14. FBDI Automation Architecture
15. End-to-End FBDI Process



Module 16: OIC FBDI Automation – Day 1

1. FBDI Business Scenario
2. Downloading FBDI Template
3. Preparing Source Data
4. Creating FBDI CSV



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5. Validating Data
6. Creating ZIP File
7. Uploading FBDI File to UCM
8. OIC FTP/File Processing
9. Stage File Action
10. File Validation
11. Calling Fusion UCM API
12. Error Handling
13. Monitoring FBDI Process
14. Practical FBDI Integration

Module 17: OIC FBDI Automation – Day 2

1. Complete FBDI Automation
2. OIC → FTP → FBDI Processing
3. Upload File to UCM
4. Submit Import Job
5. Monitor ESS Job
6. Process Job Status
7. Handle Successful Import
8. Handle Import Errors
9. Retrieve Error File
10. Send Email Notification
11. Logging and Tracking
12. Retry Mechanism
13. Duplicate File Prevention
14. End-to-End FBDI Automation Project



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Suggested 18-Day Classroom Plan

Day	Topics
Day 1	REST Services, Postman & REST Client
Day 2	Introduction to OIC + OIC Architecture
Day 3	First OIC Integration + REST Trigger/Invoke
Day 4	Path Parameter, Query Parameter & Request Body
Day 5	OIC with SOAP Services
Day 6	OIC with ATP Database
Day 7	ATP Multiple Invokes + Error Handling
Day 8	On-Premises Agent Framework – Day 1
Day 9	On-Premises Agent Framework – Day 2
Day 10	FTP/SFTP + File Processing + Notifications
Day 11	JavaScript + OpenAI + Anthropic API Integration
Day 12	Lookups + Event Publish/Subscribe
Day 13	Oracle Fusion Basic Security + User Creation + Role Assignment
Day 14	BI Publisher (BIP) Reports Basics + OTBI Basics
Day 15	FBDI Introduction + Architecture
Day 16	FBDI Automation – Day 1
Day 17	FBDI Automation – Day 2
Day 18	End-to-End OIC Project + Revision + Assessment

Capstone Project: Fusion FBDI Automation using OIC

Source CSV / FTP → OIC → File Validation → Stage File → Create FBDI ZIP → Fusion UCM → Submit ESS Job → Monitor Job → Success / Error Processing → Email Notification