

Szkolenie: Oracle
Oracle SOA Suite 12c: Build Composite Applications



Cel szkolenia:

This Oracle SOA Suite 12c: Build Composite Applications training teaches you how to design and develop SOA composite applications for application integration with services. You'll use a Service-Oriented Architecture (SOA) implementation approach.

Plan szkolenia:

- Introduction to Service Oriented Architecture
 - Describing Service-Oriented Architecture (SOA)
 - Explaining Service Component Architecture
 - Reviewing of Services and Key Standards
 - Explaining the Oracle SOA Suite 12c Architecture and Components
 - Explaining Business Events and the Event Delivery Network
 - Installing the Oracle SOA Suite 12c Quickstart
- Getting Started with Composite Applications
 - Describing Basic Synchronous and Asynchronous Interaction Patterns
 - Discussing XSD and Web Services Description Language (WSDL)
 - Creating a Mediator Component
 - Defining a Routing Service
 - Creating XSL and XQuery Transformations with the XSLT Mapper
 - Introducing Working with Adapters
 - Creating a File Adapter Service Reference
 - Examining the composite.xml Source
- Managing and Monitoring a Composite Application
 - Deploying a Composite Application
 - Versioning Applications
 - Discussing Application state
 - Using Configuration Plans
 - Managing the Life Cycle of a Composite Application
 - Testing a Composite Application

- Managing SOA Applications with JDeveloper
- Testing a Composite Application in Enterprise Manager
- Working With Data
 - Discussing Data Standards
 - Using Attributes
 - Introducing XSL Transformations
 - Using XPath Functions
 - Using the Mapper in JDeveloper
 - Testing Transformations
 - Working with Native Format Data
- Using the JMS and JDBC Adapters
 - Introducing Binding Components and JCA Adapters
 - Monitoring Adapters
 - Discussing JMS Messaging
 - Discussing Adapters and the WebLogic Application Server
 - Introducing the Oracle JMS Adapter
 - Configuring JMS Resources with WebLogic Administration Console
 - Configuring the JDBC Adapter
 - Discussing Transactionality
- Introduction to BPEL
 - Defining Business Processes and BPEL
 - Introducing Parts of a BPEL Process
 - Discussing Variables in a BPEL Process
 - Using the Sequence and Scope Activities
 - Using the BPEL Design Editor
 - Testing a BPEL Process in Enterprise Manager
- More BPEL Activities
 - Conditional Branching with the If Activity
 - Processing with the Flow Activity
 - Parallel and Sequential Looping with the Foreach Activity
 - Suspending a Process with the Wait Activity
 - Waiting for a Message with the Pick Activity
 - Looping with the While Activity
 - Indexing XML Arrays Dynamically
 - Examining Structured and Extension BPEL 2.0 Activities
- Handling Faults in Composite Applications

- Introducing Faults and Fault Handling Options
- Managing Faults in Synchronous and Asynchronous Mediators
- Returning Faults from Synchronous and Asynchronous BPEL Processes
- Throwing Faults in BPEL Processes
- Introducing Compensation and Compensation Handlers
- Introducing the Fault Management Framework
- Configuring Fault Policies
- Recovering Faults with Enterprise Manager Fusion Middleware Control
- Introducing Human Tasks
 - Introducing Human Tasks
 - Creating and Configuring a Human Task in a Composite Application
 - Adding a Human Task to a BPEL Process
 - Generating and Deploying Task Display Forms
 - Using the Worklist Application to View and Act on Task Information
 - Introducing the Oracle User Messaging Service
 - Configuring UMS Notification Properties
 - Sending Notifications to User's Preferred Channel
- Sharing Functionality
 - Using the Design-time Meta Data Services (MDS) Repository to share files
 - Introducing Templates
 - Creating and Using Project, Service Component, and Scope Activity Templates
 - Introducing BPEL Subprocesses
 - Creating and Using Standalone Subprocesses
 - Creating and Using Inline Subprocesses
 - Describing the Differences Between Templates and Subprocesses
- Using the REST Adapter
 - Introducing REST Services
 - Comparing REST and SOAP Web Services
 - Creating and Configuring a REST Adapter
- Introducing Business Rules
 - Introducing the Business Rule Component
 - Describing the Oracle Business Rules Architecture
 - Creating Rules and Decision Tables with the JDeveloper Rule Editor
 - Examining Business Rule Component Files
 - Describing the Role of the Rules SDK
 - Editing Business Rules at Runtime

- Designing and Managing Business Events
 - Describing the Event Delivery Network
 - Creating a Business Event
 - Publishing an Event
 - Subscribing to an Event
 - Managing Events in Oracle Enterprise Manager
- Testing SOA Composite Applications
 - Introducing the Composite Test Framework
 - Defining Emulations and Assertions
 - Discussing Test Suites and Test Cases
 - Testing Initiation of Inbound Messages
 - Emulating Outbound, Fault, and Callback Messages
 - Running Test Cases
 - Examining Results of a Test Run
 - Using the SOA Debugger to Debug Composite Applications
- Securing Services and Composite Applications
 - Explaining Security for Services
 - Describing the Fusion Middleware Security Architecture
 - Attaching Security Policies at Design Time in JDeveloper
 - Attaching Security Policies Post-Deployment in Enterprise Manager

Wymagania:

Wymagane prerekwizyty:

- Knowledge of XML, XML Schema, XSL Transformations and XPath
- Knowledge of web service standards, including SOAP and WSDL.

Poziom trudności



Certyfikaty:

Uczestnicy szkoleń otrzymają zaświadczenia o ukończeniu kursu sygnowane przez firmę Oracle.

Prowadzący:

Autoryzowany wykładowca Oracle.