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

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* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

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.