

# Oracle SOA Suite 12C Essentials



## Online Course

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## Course Modules

### 1. Fundamentals

- Explain basic SOA concepts and how they map to implementations
- Describe the components and architecture of SOA Suite
- Describe SOA Suite's role in cloud integration and mobile apps
- Use the right components to implement common integration patterns
- Analyze XPath expressions to retrieve elements in an XML doc
- Describe Oracle's SOA governance capabilities
- Describe how B2B capabilities enable trading partner relationships
- Describe the main features of the Enterprise Scheduler Service

### 2. BPEL Modeling

- BPEL Editor to create synchronous & asynchronous processes
- Use WSDL partner link types and BPEL partner link elements
- Use the assign activity to manipulate data in BPEL variables
- Model conditional branching, looping, and parallel processing
- Exception handling, compensating transactions and correlation
- Create and configure BPEL and composite sensors
- Use the BPEL Debugger



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## 3. Adapters

- Describe the role adapters play in a SOA composite application
- Describe the adapter architecture
- Use the file, database, and JMS adapters
- Configure adapters at design-time and run-time
- Describe cloud-related adapters

## 4. Business Rules

- Create if/then rules with Rules Designer
- Create decision table rules with Rules Designer
- Integrate a rule into a BPEL process
- How rules are used with mediator & human task components

## 5. Human Task Services

- Design a human task
- Invoke a human task from a BPEL process
- Genrt App Dvlpmnt Framewrk (ADF) task forms for human tasks
- Interact with the Worklist application to act on tasks



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## 6. Service Mediation

- Differentiate between when to use Mediator and Service Bus
- Explain the role of Service Bus and the benefits it provides
- Create & config Service Bus proxies, pipelines, & business services
- Throttling, endpoint management, & caching to scale business
- Config a service as RESTful and access it using the REST approach

## 7. Event Processing

- Event-driven architecture & the suprt provided by Event Delivery
- Use components to publish and consume events
- Complex Event Processing (CEP) & how it is supported by Oracle
- Explain Event Processing Network (EPN) & how it relates to OEP
- How various OEP CQL data cartridges enhance the capabilities

## 8. Business Activity Monitoring (BAM)

- Describe the role of BAM
- Activity monitors, counters, busins indicators & interval monitoring
- Create alert rules to launch alerts
- Build an executive dashboard



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## **9. Securing Services**

- Describe the role and features of Oracle Web Service Manager
- Describe identity propagation
- Attach security policies to end points at design-time and run-time

## **10. Deployment and Troubleshooting**

- Deploy and undeploy components to SOA Suite
- Discuss the role Maven and Hudson play
- Test cases to initiate inbound messages & to emulate outbound
- Monitor components deployed to SOA Suite
- Describe how SOA Suite apps scale to large-scale production
- Troubleshoot a deployed SOA Suite application

## **11. Installation and Configuration**

- Install and configure SOA Suite
- Upgrade a production application from SOA Suite 11g
- Install and configure Oracle Event Processing (OEP)

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