Certification Exam Prep Seminar: Java EE 7 Application Developer

Duration: 1 Day

What you will learn

This exam prep seminar helps you prepare to take the Java EE 7 Application Developer certification exam. Java EE 7 Application Developer (1Z0-900) Preview the Seminar Buy Seminar Now *Prices are subject to change based on location.   Exam Prep Seminars: Provide a thorough review of exam objectives. Illustrate the breadth of topics and skills necessary to pass the exam. Give exclusive tips and strategies to prepare for the certification exam. Increase confidence.   This seminar is for exam review purposes only and does not meet the Hands-on Course training requirement (if applicable to your certification track).

Course Objectives

Get information that will help you complete your preparation and study.

Learn from one of Oracle University's top instructors.

Receive tips and information that will help you on the test.

Review key technologies and certification concepts related to Java EE 7 Application Development.

Understand the depth and breadth of the Java EE 7 Application Developer Certified Professional.

Course Topics

Understand Java EE Architecture
Describe Java EE 7 standards, containers, APIs, and services
Differentiate between application component functionalities as they apply to different tiers and containers, including Java
Create, package and deploy Java EE application
Demonstrate understanding of Enterprise JavaBeans and CDI beans, their lifecycle and memory scopes
Demonstrate understanding of the relationship between bean components, annotations, injections, and JNDI

Manage Persistence using JPA Entities and BeanValidation
Create JPA Entity and Relationship Object-Relational Mappings (ORM)
Use Entity Manager to perform database operations, transactions and locking with JPA entities
Handle entity data with conversions, validations, and key generation
Create and execute JPQL statements

Implement Business Logic by Using EJBs
Create session EJB components containing synchronous and asynchronous business methods, manage the life cycle co
Demonstrate understanding of how to control EJB transactions, distinguish Container Managed (CMT) and Bean Manage
Create EJB timers

Use Java Message Service API
Describe the Java Message Service (JMS) messaging models and implement Java SE and Java EE message producers
Use transactions with JMS API

Implement SOAP Services by Using JAX-WS and JAXB APIs
Create SOAP Web Services and Clients using JAX-WS API
Define Java to XML Schema mappings to marshall and unmarshall Java Objects by using JAXB API

Create Java Web Applications using Servlets
Create Java Servlets, describe how they are mapped to urls and use HTTP methods
Handle HTTP headers, parameters, cookies
Manage servlet life cycle with container callback methods and WebFilters

Create Java Web Applications using JSPs
Describe JSP life cycle
Describe JSP syntax, use tag libraries and Expression Language (EL)
Handle errors using Servlets and Java Server Pages

Implement REST Services using JAX-RS API
Understand and Apply REST service conventions
Create REST Services and clients using JAX-RS API

Create Java Applications using WebSockets
Understand and utilise WebSockets communication style and lifecycle
Create WebSocket Server and Client Endpoint Handlers using JSR 356 API and JavaScript
Produce and consume, encode and decode WebSocket messages

Develop Web Applications using JSFs
Describe JSF arcitecture, lifecycle and navigation
Understand JSF syntax and use JSF Tag Libraries
Handle localisation and produce messages
Use Expression Language (EL) and interact with CDI beans

Secure Java EE 7 Applications
Describe Java EE declarative and programmatic security and configure authentication using application roles and securit
Describe WebServices security standards

Use CDI Beans
Create CDI Bean Qualifiers, Producers, Disposers, Interceptors, Events and Stereotypes

Use Concurrency API in Java EE 7 Applications

Demonstrate understanding of Java Concurrency Utilities and use Managed Executors

Use Batch API in Java EE 7 Applications
Describe batch jobs using JSL XML documents and JSR 352 API