

# COURSE OVERVIEW

**Course Name:**  
Developing Applications  
for the Java EE7  
Platform

**COURSE DURATION: 5 Day**

**Gauteng:**

3rd Floor, 34 Whitely Road  
Melrose Arch  
Johannesburg  
2196

**Gauteng:**

192 on Bram  
192 Bram Fischer Drive  
Ferndale, Randburg  
Johannesburg  
2160

**Cape Town:**

3rd Floor, Thomas Pattullo Building  
19 Jan Smuts St  
Cape Town  
8000

**Durban:**

9 Mountview Close  
Broadlands  
Mount Edgecombe  
Durban  
4302

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## INTRODUCTION

This five day Developing Applications for the Java EE 7 Platform training teaches you how to build and deploy enterprise applications that comply with Java Platform, Enterprise Edition 7. The technologies presented in this course include annotations, Enterprise JavaBeans (EJB), Java Persistence API (JPA), Java Transaction API (JTA), Servlets, JavaServer Pages (JSPs), JavaServer Faces (JSF), Contexts and Dependency Injection (CDI), JAX-RS RESTful and SOAP Web Services, the Java API for WebSocket, Java Message Service API (JMS), Bean Validation, Batch API, Timer services, and Java EE Concurrency.

## DELIVERY METHOD

Our courses have flexible delivery options:

- In-person classroom training at the Impactful training facilities
  - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client

## INTENDED AUDIENCE

Mobile and Web Applications Developers, Application Developers, Java Developers, Java EE Developers and J2EE Developers

## PREREQUISITES

- Experience with XML
- Experience with the Java language
- Experience with basic database concepts and a basic knowledge of SQL
- Java SE 8 Certification Oracle requires and recommends that delegates have attended the following course prior to attending this course.
- Required Course: D84843 Java SE 8 Programming

## COURSE OBJECTIVES

By attending this training students will receive the knowledge required to:

- Deploy Java EE applications
- Handle business logic using POJOs, EJBs, SOAP WebServices, and JMS
- Manage persistency using JPA entities
- Create Java web applications using servlets, JSPs, JSFs, REST Services, and WebSockets
- Secure Java EE applications

## COURSE CONTENT

Lesson 1: **Introduction**

Lesson 2: **Introduction to Java EE**

Lesson 3: **Managing Persistence by Using JPA Entities**

Lesson 4: **Implementing Business Logic by Using EJBs**

Lesson 5: **Using Java Message Service API**

Lesson 6: **Implementing SOAP Services by Using JAX-WS**

Lesson 7: **Creating Java Web Applications by Using Servlets**

Lesson 8: **Creating Java Web Applications by Using JSPs**

Lesson 9: **Implementing REST Services using JAX-RS API**

Lesson 10: **Creating Java Applications with WebSockets**

Lesson 11: **Developing Web Applications Using JavaServer Faces**

Lesson 12: **Securing Java EE Applications This lesson tea**