

# Oracle Cloud Infrastructure Developer Professional: Hands-on Workshop

**Course Duration: 32 Hours**

**Course Code: OCI-DEV-PRO-HW**

## 1. Course Overview

The **Oracle Cloud Infrastructure (OCI) Developer Professional: Hands-on Workshop** is designed to provide developers and IT professionals with advanced knowledge and practical skills to build, deploy, and manage applications on Oracle Cloud Infrastructure. Through real-world scenarios and hands-on labs, participants will gain expertise in using OCI services, SDKs, APIs, and DevOps tools to create modern, scalable, and secure cloud-native solutions.

## 2. What You'll Learn?

By the end of this workshop, participants will be able to:

- Understand OCI architecture and developer tools.
- Build, deploy, and manage cloud-native applications on OCI.
- Leverage OCI SDKs, APIs, and CLI for automation.
- Integrate CI/CD pipelines with OCI Developer Services.
- Apply best practices for monitoring, scaling, and securing applications.
- Work on hands-on labs to solve real-world cloud development challenges.

### 3.3. Target Audience

This course is ideal for:

- Cloud Developers and Application Developers
- DevOps Engineers and Cloud Architects
- IT Professionals planning to adopt Oracle Cloud
- Anyone preparing for OCI Developer Professional certification

### 4. Pre-Requisites

Participants should have:

- Basic knowledge of cloud computing concepts
- Familiarity with application development (Java, Python, or similar)
- Understanding of networking and DevOps practices is helpful but not mandatory

### 5. Course Content

#### **Module 1: Introduction to Oracle Cloud Infrastructure**

- OCI Overview and Core Concepts
- OCI Developer Tools and Services

#### **Module 2: Working with OCI SDKs, APIs, and CLI**

- Setting up SDKs and CLI
- Automating tasks with APIs

#### **Module 3: Developing and Deploying Applications on OCI**

- Compute and Container Services (OKE, Functions)
- Deploying microservices applications

#### **Module 4: Infrastructure as Code (IaC) with Terraform**

- Introduction to Terraform on OCI
- Automating infrastructure deployment

### **Module 5: DevOps and CI/CD on OCI**

- OCI DevOps Services
- Building CI/CD pipelines

### **Module 6: Monitoring, Logging, and Security**

- Application Monitoring and Logging
- Security Best Practices for Developers

### **Module 7: Hands-on Labs and Real-World Scenarios**

- Practical implementation exercises
- Case studies and project work

