



# Introduction to HPE Helion Development Platform H8Q06S

This 2-day course provides students an introduction to the HPE Helion Development Platform (HDP), including the Application Lifecycle Service (ALS) and Database Service. Students will gain familiarity with ALS concepts for both administering, building and deploying applications. Students will also learn about the database service and how you can use them to build highly available applications.

## Introduction to HPE Helion Development Platform

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**Price** USD \$1,600

**Links to local schedules, pricing and** [US/Canada](#)  
[Mexico/Latin America](#)  
[Brazil](#)

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**HP course #** H8Q06S

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**Category** Cloud

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**Duration** 2 days

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## Special note

Course information provided is preliminary and subject to change.

## Audience

- Application developers or administrators wishing to learn about the HPE Helion Development Platform.

## Prerequisites

- Basic understanding of cloud concepts: IaaS & PaaS
- Familiarity with web application architecture

## Course objectives

After this course, students will be able to:

- Describe the HPE Helion Development Platform
- Describe the basics of cloud native applications
- Install, configure and administer an ALS cluster
- Understand the anatomy of an ALS application
- Build a simple application for ALS
- Install, configure and administer the Database Service
- Create and manage database replicas

## Benefits to you

Throughout the course flow, students will assume different personas, take the role of IT admin or developer for each action. This will help to understand how HDP helps isolate the responsibilities, while also streamlining collaboration between admins and devs for reducing total cost of ownership (TCO). Each student will have the access to the dedicated hardware environment hosted in HPE Virtual Labs.

## Certifications and Related Examinations

EXIN Foundation Certificate in OpenStack® Software

## Course outline

### Module 1: Introduction to HPE Helion

- HPE Helion Architecture & Components
- Why PaaS?
- Introduction to Cloud Native Applications
- What is the HPE Helion Development platform?
- Why HDP?
- HDP Architecture & Components
- Introduction to building cloud applications with the 12 factor approach.

### Lab 1 — Verifying the Environment

- Exercise 1 — Accessing the HPE Virtual Labs environment
- Exercise 2 — Verifying the network connectivity to HPE Helion OpenStack®
- Exercise 3 — Connecting to the HPE Helion OpenStack® dashboard

### Module 2: Getting Started with the Application Lifecycle Service

- What is the ALS?
- ALS Architecture
- Deploying ALS
- Using the CLI
- Deploying an application
- Tour of application management: deploying, starting, stopping, logging, updating & scaling

### Module 3: Deploying an ALS Cluster

- Creating ALS Clusters
- Creating a MicroCloud
- Creating an ALS Cluster in HP Public Cloud
- Operating a Cluster

### Lab 2 —Creating and Patching the ALS Cluster

- Exercise 1 — Creating the ALS cluster
- Exercise 2 — Patching the ALS cluster
- Exercise 3 — Adding a DEA node to the ALS cluster

### Lab 3 — Connecting to the ALS cluster

- Exercise 1 — Connecting the the ALS cluster GUI
- Exercise 2 — Examining the ALS cluster using the CLI

### Module 4: Application Lifecycle Service concepts

- Organizations, Spaces, Users & Roles
- Domains & Routing
- Anatomy of an application: Buildpacks and Manifests
- Services & Service Instances

### Lab 4 — Working with ALS

- Exercise 1 — Working with users
- Exercise 2 — Working with Spaces and Organizations
- Exercise 3 — Working with Organization details
- Exercise 4 — Using the ALS CLI client

#### **Module 5: Developing Applications for the Application Lifecycle Service**

- Developer Tools (Eclipse plugin, VS plugin)
- indows/.NET app deployments
- Linux app deployments
- Scaling applications
- Blue/Green Deployments
- Buildpacks, frameworks and languages
- Environment variables & manifest files
- Using Services
- Logging
- Debugging applications

#### **Lab 5 — Working with Applications**

- Exercise 1 — Running a sample application
- Exercise 2 — Modifying the sample application
- Exercise 3 — Working with the application variables
- Exercise 4 — Modifying the number of application instances

#### **Lab 6 — Working with services**

- Exercise 1 — Working with services from the GUI
- Exercise 2 — Accessing the unmanaged service from the CLI
- Exercise 3 — Setting up external data services

#### **Module 6: Getting Started with the Database Service**

- What is the Database Service?
- Architecture
- Creating and managing Instances
- Replication
- Backup and restore
- Developing applications with Database Service

Learn more

**[hpe.com/us/training/cloud](https://hpe.com/us/training/cloud)**