

HPE DevOps Essentials HODS6S

HPE course number	HODS6S
Course length	3 Days
Delivery mode	ILT, VILT
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This introductory course helps students explore and adopt DevOps to improve innovation, agility and quality to support business outcomes in their organization. It addresses the benefits and challenges in evolving a DevOps approach to the application and service development lifecycle.

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Audience

- Senior IT managers (CIO/CTO), IT development staff, IT operations staff, IT process owners, business managers, business process owners
- Individuals who require an understanding of DevOps and how it can contribute to business success within an organization
- IT professionals and teams implementing DevOps

Prerequisites

Before attending this course, students should have the following:

- Understanding of Agile software development (beneficial, but not required)
- Understanding of ITIL 4 framework (beneficial, but not required)
- The official reference to the examination: The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations by Gene Kim, Jez Humble, Patrick Debois, John Willis (recommended for all students)

Course objectives

During this course, students will learn:

- What is DevOps and who needs it
- Goals and business benefits of DevOps
- How DevOps fits with ITIL 4
- Changes required for DevOps
 - Changes to job roles, culture, skills, metrics
 - Changes to processes
 - Changes to tools, infrastructure and technology
- DevOps principles and techniques
 - Continuous Integration/Continuous Delivery/Continuous Deployment
 - The Three Ways (Flow, Feedback, Continuous Learning)
- How to begin the DevOps journey
- Where to start and how to scale
- DevOps maturity models
- Prepare for the EXIN DevOps Professional Exam

Certifications and related examinations

This course prepares students for the EXIN DevOps Professional Examination.

Detailed course outline

Module 1: DevOps Adoption	<ul style="list-style-type: none"> Describe the basic reasons for DevOps adoption DevOps myths History of DevOps 	<ul style="list-style-type: none"> Bi-model IT Introduction to Agile. Principles of the Three Ways
Module 2: Culture and People	<ul style="list-style-type: none"> Focus on business outcomes Explain how the several DevOps roles work together to add value to the business 	<ul style="list-style-type: none"> Explain the differences between I-shape, T-shape and E-shape in relationship to DevOps Explain how to integrate operations into the daily work of development
Module 3: DevOps Principles and Concepts	<ul style="list-style-type: none"> Infrastructure as code Immutable vs mutable servers Cloud concepts 	<ul style="list-style-type: none"> Microservices versus monolithic services Configuration management practice Service level management practice
Module 4: The First Way: The Technical Practice of Flow	<ul style="list-style-type: none"> Visualizing work Kanban, handoff reduction, waste reduction Deployment pipeline Continuous Integration/Continuous Delivery (CI/CD) 	<ul style="list-style-type: none"> Software development and management practice Automated testing Deployment management practice Release management practice
Module 5: The Second Way: Feedback	<ul style="list-style-type: none"> Feedback loops, swarming, andon Telemetry Hypothesis-driven development 	<ul style="list-style-type: none"> Code review techniques Launch readiness Low-risk releases
Module 6: The Third Way: Continuous Learning and Experimentation	<ul style="list-style-type: none"> Explain how continual improvement helps an organization Understand and conduct a blameless post-mortem Differentiate between the several Simian Army Monkey types to improve learning 	<ul style="list-style-type: none"> Explain how injection of production failure creates resilience Explain when to use game days Explain Kaizen Blitz
Module 7: Information Security, Change Enablement, and Governance		
Module 8: Where to Start	<ul style="list-style-type: none"> Assessments Pilots 	<ul style="list-style-type: none"> Agile/Scrum/Kanban
Exam preparation and review		

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