

HPE DevOps Essentials HODS6S

This introductory course is designed to help students explore and adopt DevOps in their organizations to improve innovation, agility and quality in their releases. It addresses the benefits and challenges in evolving a DevOps approach to the application development lifecycle.

HPE course number	HODS6S
Course length	3 days
Delivery mode	ILT, vILT
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Audience

- Senior IT management (CIO/CTO), IT managers, 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 the success of the business within an organization.
- IT professionals and teams implementing DevOps.

Prerequisites

Before attending this course, students should consider the following:

- Understanding of Agile software development is beneficial, but not required.
- Understanding of the IT service lifecycle/ITIL is beneficial, but not required.

Course Objectives

On successful completion of this course, candidates can expect to gain knowledge of:

- What DevOps is
- Goals and business benefits of DevOps
- How DevOps fits with ITIL
- DevOps organizational culture and leadership
- Changes required for DevOps
- DevOps principles and techniques
- How to implement DevOps
- Best practices
- People, process and technology (automation) aspects

Detailed Course Outline

DevOps adoption	<ul style="list-style-type: none"> • DevOps awareness <ul style="list-style-type: none"> – Why DevOps? – What is DevOps? – How does DevOps fit with other initiatives, techniques, and frameworks? • Culture and people <ul style="list-style-type: none"> – Reminders: Agile values and principles 	<ul style="list-style-type: none"> – Focus on business outcome – Team organization structure options – Team skills & training – Leadership characteristics that are required by DevOps – Culture: based on collaboration, courage, learning, innovation, trust, blameless post-mortem
DevOps implementation	<ul style="list-style-type: none"> • DevOps principles and concepts <ul style="list-style-type: none"> – Rapid development: - small chunks - more frequent deployment – Infrastructure as Code & environments - S/W defined infrastructure – Continuous improvement – Concepts of CI/CD - the continuous delivery pipeline 	<ul style="list-style-type: none"> • Processes <ul style="list-style-type: none"> – Application lifecycle management – Configuration management – Change management process – Continuous integration / continuous delivery / continuous deployment – Automation and tools
Putting it all together	<ul style="list-style-type: none"> • Where to start? <ul style="list-style-type: none"> – Rigorous self-assessment – Selecting the team & projects – How will the team operate? – Establish the mandatory anchor points – Value streams – What are repetitive tasks that can be automated – To reorg or not – When and how to evaluate project success – When to begin scaling • Real-world applications <ul style="list-style-type: none"> – HPE's DevOps journey 	<ul style="list-style-type: none"> – Other notable DevOps company examples – Unicorns vs. horses • The leader role <ul style="list-style-type: none"> – Creating the environment for teams to be successful – Challenges, support, and back-out: letting teams create the solutions – Ensuring liaison with the business to understand benefits – Creating the culture – Creating a learning environment • A last look around

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c05049809, May 2017, H0DS6S B.00