

Introduction to DevOps H9P61S

This course introduces the fundamentals of DevOps. It explains the key principles and practices that underpin DevOps and helps attendees to understand the benefits that a DevOps approach could have for their own organizations, and potential problems that should be addressed. The course includes discussion of people, process and technology aspects of DevOps, and provides practical suggestions of steps that attendees can take to start introducing DevOps.

HPE course number	H9P61S
Course length	1 day
Delivery modes	ILT, VILT
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Audience

- Senior IT management, 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 IT within an organization
- IT professionals who are working in an organization that has adopted DevOps and need to be informed about DevOps so that they can operate effectively within the organization

Prerequisites

There are no specific prerequisites for this training, but knowledge and experience of how an IT organization works would be helpful.

Those attending this course could benefit from purchasing and reading the following book: *DevOps - A Business Perspective* by Oleg Skrynnik

Course objectives

- On successful completion of this course, candidates can expect to gain knowledge of:
- Issues around organizational separation of IT development and IT operations, and how these can have a negative impact on both IT and the business
 - How DevOps builds on existing concepts and approaches such as ITIL, Agile, and Kanban
 - The role of continuous integration, continuous delivery, and continuous deployment in DevOps
 - Organizational issues relating to DevOps and understanding of options for DevOps organizational design
 - The role that tools play in DevOps
 - Possible approaches to get started on a DevOps journey

* Realize Technology Value with Training, IDC Infographic 2037, Sponsored by Hewlett Packard Enterprise, 2019

Detailed course outline

Introduction	<ul style="list-style-type: none">• Describe the current business context• Recognize IT challenges• Define the origins of DevOps	<ul style="list-style-type: none">• Understand the definition of DevOps• Articulate the business reasons for using DevOps• Misconceptions of DevOps
DevOps Fundamentals	<ul style="list-style-type: none">• Value stream and value stream mapping• The three ways• Deployment pipeline	<ul style="list-style-type: none">• Version control• Configuration management
DevOps Techniques	<ul style="list-style-type: none">• Sprint events• User stories• Product backlog• Minimum Viable Product• Microservices	<ul style="list-style-type: none">• Deployment methods• Definition of done• Kanban• Improvement techniques
DevOps Practical Application	<ul style="list-style-type: none">• Applicability of DevOps• Potential issues• Multi-modal IT	<ul style="list-style-type: none">• ITIL 4 and DevOps• DevOps journey

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