



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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DevOps Foundation Certification Course

CODE:	LENGTH:	PRICE:
U4DEVOPF	16 Hours (2 days)	£1,075.00

Description

This two day course provides an introduction to DevOps - the cultural and professional movement that stresses communication, collaboration, integration and automation in order to improve the flow of work between software developers and IT operations professionals.

Improved workflows will result in an improved ability to design, develop, deploy and operate software and services faster.

Objectives

The learning objectives for DevOps Foundation includes an understanding of:

- DevOps objectives and vocabulary
- Benefits to the business and IT
- Principles and practices including Continuous Integration, Continuous Delivery, Testing, Security and the Three Ways
- DevOps relationship to Agile, Lean and ITSM
- Improved workflows, communication and feedback loops
- Automation practices including deployment pipelines and DevOps toolchains
- Scaling DevOps for the enterprise
- Critical success factors and key performance

Audience

- Individuals seeking an understanding of DevOps principles, practices and cultural considerations
- Organisations wanting to instil a common DevOps vocabulary and mindset
- Employees and managers responsible for leading DevOps transformations
- Consultants, internal and external suppliers

Prerequisites

- Completion of pre-class assignment
- Familiarity with IT software development and operations responsibilities

Programme

Day 1

- Course Introduction
- Course Goals
- Course Agenda

Why DevOps?

- The Business Perspective
- The IT Perspective
- Dev and Ops Stereotypes: Perceptions and Realities

What is DevOps?

- DevOps Introduction
- DevOps Stakeholders
- DevOps Goals
- DevOps Values

DevOps Business Value

- What DevOps is NOT
- Who's Doing DevOps
- Enterprise DevOps

DevOps and IT Performance

- Demonstrated Results

DevOps and Automation

- Automation Enablers

Measuring DevOps Success DevOps Principles

- The Three Ways

DevOps Patterns DevOps and Other Frameworks

- DevOps and Agile
- DevOps and Lean
- DevOps and IT Service Management

DevOps Culture

- Understanding Organizational Culture
- Characteristics of Organizational Culture
- Characteristics of a DevOps Culture
- Managing Culture Change

Homework

- Day 1 study aids, reading, sample exam

Day 2 DevOps Organizational Considerations

- DevOps Skills
- DevOps Teams
- DevOps Organizational Structures

- DevOps Roles

Promoting Collaboration Improving Communication DevOps Practices

- Continuous Integration
- Continuous Delivery
- Continuous Deployment
- Value Stream Mapping
- Kanban
- Theory of Constraints
- Experimentation and Learning
- The Deming Cycle
- Improvement Kata
- Preparing for Failure
- ITSM Process Improvement Practices

DevOps Automation Practices and Tool Categories

- DevOps Automation Practices
- Where to Begin
- Application Life Concerns and Tool
- Categories

Adopting a DevOps Culture Getting Started Challenges, Risks and Critical Success Factors Summary
Additional Sources of Information Exam Preparations Exam Requirements, Question Weighting and Terminology List
Sample Examination Review

Test and Certification

The DevOps Foundation certification is a 60 minute exam consisting of 40 multiple choice questions and the passmark is 65%. The certification can be taken at the end of the course in the classroom or online at a date and time convenient to the learner. The cost of certification is included in the course.

The certification is governed and maintained by the DevOps Institute; exams are delivered through an independent, global examination partner.

The DevOps Foundation Certificate will be the pre-requisite for the DevOps Leader certification courses.

Session Dates

On request. Please [Contact Us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)