Systems & Network Training

DevOps for engineers

A 2 day training course

⭐ Description

This course is an introduction to DevOps. The course emphasizes communication, collaboration , integration, and automation to improve the workflow between developers and IT operations professionals. Improved workflows lead to more opportunities to design software and services in a more agile fashion. This course is a basis for discovering the most important DevOps concepts and to understand the principles and methods behind this. The course will leave you with the inspiration to be the advocate of change.

👍 Key outcomes

By the end of the course delegates will be able to:

✔ Explain DevOps principles.

✔ Describe the relationship between Agile , Lean and IT Service Management (ITSM).

✔ Describe methods for automation and technology factors.

✔ Describe considerations when changing.

✔ Describe challenges, risks and critical success factors.

📷 Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.

📋 Details

Who will benefit?
IT development, IT operations and IT service management.

Prerequisites
Introduction to data communications & networking.

Duration: 2 days

Overall rating: ⭐⭐⭐⭐⭐

Generic training	Small class sizes	Hands On training	Our courseware	Customise your course
Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".	We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.	The majority of our courses use hands on sessions to reinforce the theory.	We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.	Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.
"Friendly environment with expert teaching that teaches the why before the how." G.C. Fasthosts	*"Excellent course. The small class size was a great benefit..."* M.B. IBM	*"Not many courses have practice added to it. Normally just the theoretical stuff is covered."* J.W. Vodafone	*"Comprehensive materials that made the course easy to follow and will be used as a reference point."* V.B. Rockwell Collins	*"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."* S.R. Qinetiq

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Course content

Introduction

Why DevOps?
> From a business perspective
> From an IT perspective
> Stereotypes of Dev and Ops: perception and reality

What is DevOps?
> Introduction DevOps
> Goals DevOps
> Added value of DevOps
> Proven Results
> DevOps for businesses
> DevOps principles (The Three Ways)

DevOps and other frameworks
> DevOps and Agile
> DevOps and Lean
> DevOps and IT Service Management

DevOps culture
> Characteristics of a DevOps culture
> Organizational Considerations DevOps
> DevOps stakeholders
> DevOps roles
> DevOps teams
> DevOps organizational structures

DevOps methods
> Continuous Integration
> Continuous delivery
> Continuous deployment
> Value stream mapping
> Kanban
> Theory of Constraints
> Improvement Kata
> Deming's quality circle
> ITSM processes
> DevOps and Automation

Methods for DevOps automation
> Longevity and tools categories DevOps applications
> Transitioning to a DevOps culture

Implementation
> Challenges, risks and critical success factors
> Measuring DevOps successes

Step forward

DevOps for engineers → Complete Python programming

DevOps for engineers → Git and GitHub for engineers