

DevOps Foundation Course Description and Outline

About DevOps Foundation

This sixteen (16) hour certification course provides an introduction to DevOps - the cultural and professional movement that stresses communication, collaboration and integration between software developers and IT operations professionals. This course is designed to provide the basic education needed to build a DevOps vocabulary and to understand its principles and practices.

Certificate: DevOps Foundation

Accreditor: DevOps Institute

Duration: 16 hours

Language: English

Exam: Web based - Closed book - 60 minutes - 40 multiple-choice questions - Passing score 65%

Courseware / Learner Manual includes:

- Instructor slides (2 per page)
- Additional sources of information
- Sample documents
- Practical assignments
- Exam requirements
- Study aids/study aids answer key
- Official sample exam/sample exam answer key
- Glossary of terms and acronyms
- DevOps - The Basics (Pre-read)
- DevOps Reference Card

DevOps Foundation Course Agenda and Outline

The following provides both the 'at a glance' agenda and detailed outline for this course.

DevOps Foundation 'At a Glance' Agenda

Day 1	Day2
Class Introductions Course Introduction	Morning Review
Why DevOps? What is DevOps? DevOps Principles	DevOps Organizational Considerations DevOps Practices
Lunch (one hour)	
DevOps and Other Frameworks DevOps Culture	DevOps and Automation Adopting a DevOps Culture
Homework Study Aids	Exam Review Exam

This course can be taught in a physical or virtual classroom or in a blended (physical and virtual) learning environment.

This course can be covered in two days (eight hours per day) or divided into logical increments such as four days (four hours per day).

The web-based exam is taken at a date and time convenient to the learner.

DevOps Foundation Detailed Course Outline

Day 1	Day2
Course Introduction <ul style="list-style-type: none"> Course Goals Course Agenda 	DevOps Organizational Considerations <ul style="list-style-type: none"> DevOps Skills DevOps Teams DevOps Organizational Structures DevOps Roles
Why DevOps? <ul style="list-style-type: none"> The Business Perspective The IT Perspective Dev and Ops Stereotypes: Perceptions and Realities 	Promoting Collaboration Improving Communication
What is DevOps? <ul style="list-style-type: none"> DevOps Introduction DevOps Stakeholders DevOps Goals DevOps Values DevOps Business Value What DevOps is NOT Who's Doing DevOps Enterprise DevOps 	DevOps Practices <ul style="list-style-type: none"> 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 and IT Performance <ul style="list-style-type: none"> Demonstrated Results DevOps and Automation <ul style="list-style-type: none"> Automation Enablers Measuring DevOps Success DevOps Principles <ul style="list-style-type: none"> The Three Ways DevOps Patterns DevOps and Other Frameworks <ul style="list-style-type: none"> DevOps and Agile DevOps and Lean DevOps and IT Service Management 	DevOps Automation Practices and Tool Categories <ul style="list-style-type: none"> DevOps Automation Practices Where to Begin Application Life Concerns and Tool Categories Adopting a DevOps Culture <ul style="list-style-type: none"> Getting Started Challenges, Risks and Critical Success Factors
DevOps Culture <ul style="list-style-type: none"> Understanding Organizational Culture Characteristics of Organizational Culture Characteristics of a DevOps Culture Managing Culture Change 	Summary Additional Sources of Information Exam Preparations <ul style="list-style-type: none"> Exam Requirements, Question Weighting and Terminology List Sample Exam Review