

## DevOps – Foundation Certificate Program

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### Course Summary

#### Description

This 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

After taking this course, students will understand:

- DevOps objectives and vocabulary
- Benefits to the business
- Concepts and practices — including its relationship to Agile, Lean and IT Service Management (ITSM)
- Improved workflows
- Improved communication and feedback loops
- Reliance on automation
- Applying DevOps in an enterprise environment
- Critical success factors and key performance indicators
- Real-life examples and results

#### Topics

- Basic concepts
- Value of DevOps
- Organizational consideration
- Culture
- Practices
- Automation
- Key principles and terminology
- Relationship to other frameworks

#### Audience

The target audience for the Foundation qualification is Management, Operations, Developers, QA, Testing, and Service Management.

- Individuals involved in IT development, IT operations or IT service management
- Individuals who require a detailed understanding of DevOps principles
- IT professionals working within, or about to enter, an Agile Service Design Environment
- The following IT roles:
  - DevOps Engineers
  - Integration Specialists
  - Operations Managers
  - System Administrators
  - Network Administrators
  - Project Managers
  - Business Managers
  - Automation Architects
  - Application Developer / Software Programmer
  - Software Tester / QA
  - Business (Requirements) Analyst

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### **Course Summary (cont.)**

#### **Prerequisite**

- Completion of pre-class assignment
- Familiarity with IT and IT service management is recommended

#### **Duration**

Two Days