

# Course Outline

## 1: DevOps Introduction

- Module Objectives
- Module Topics
- Emergence of DevOps
- Core Concepts of DevOps
- DevOps Agile Skills Association (DASA)
- Module Summary
- Module End Questions

## 2: Culture

- Module Objectives
- Module Topics
- Essence of a DevOps Culture
- Key Elements of DevOps
- Implementation of a DevOps Culture
- Module Summary
- Module End Questions

## 3: Organization

- Module Objectives
- Module Topics
- Organizational Model
- Autonomous Teams
- Architecting for DevOps
- Governance
- Module Summary
- Module End Questions

## **4: Processes**

- Module Objectives
- Module Topics
- Process Basics
- DevOps in Relation to ITSM
- Agile and Scrum
- 12 Principles of the Agile Manifesto
- Optimizing Processes Using Lean
- Business Value Optimization and Business Analysis Using Story Mapping
- Module Summary
- Module End Questions

## **5: Automation**

- Module Objectives
- 6A Automation Concepts
- Automation for Delivery of Software
- Continuous Delivery Core Concepts
- Continuous Delivery Automation Concepts
- Continuous Delivery Automation Focus Topics
- 6B Data Center Automation
- Emergence of Cloud Technology and Principles
- Cloud Services Concepts in a DevOps Organization
- Automated Provisioning Concepts
- Platform Product Characteristics and Application Maturity
- Module Summary
- Module End Questions

## **6: Measure and Improvement**

- Module Objectives
- Module Topics

- Importance of Measurement
- Choosing the Right Metrics
- Monitoring and Logging
- Module Summary
- Module End Questions