DevOps Fundamental Course Outline

Introduction: What is DevOps?

• Brief overview of the course, an introduction and how to use the most important features in this course.

Module 1: The Urgency for DevOps

• To discuss and understand the Business Value Delivery Problem and the IT Value Delivery Problem.

Module 2: Key DevOps Principles & Concepts

• To expose and discuss with attendees the principles and concepts as below:

1. C.A.L.M.S and The Three Ways.

2. Continuous Delivery Across The Deployment Pipeline.

3. The Scope of The Full Stack

Module 3: The Full Stack – People and Culture Layer.

• What is a DevOps Culture.

• Transformational Leadership.

• What is a DevOps Team.

Module 4: The Full Stack – Processes and Practices Layer.

• The Evolution of DevOps Practices.

• The 15 Essential Practices of DevOps.

Module 5: Technology and Automation Layer

• Automation for the Deployment Pipeline

• Cloud Technology and Virtualization

• Architecting for Continuous Delivery