

DevOps Fundamentals (3 Day)

The purpose of this foundation level qualification is to confirm that a candidate has sufficient knowledge, understanding and application of fundamental DevOps skills and are be able to work effectively with, or as a member of, a DevOps environment. The Fundamentals qualification is also a pre-requisite for the PeopleCert DevOps Leadership qualification.

Target Audience

This certification is the **first (Fundamentals) level** of the **PeopleCert DevOps** qualification scheme provided by PeopleCert and is aimed at anyone who wishes to become an efficient member of a DevOps environment and requires candidates to have and demonstrate a solid **knowledge** and **understanding** of DevOps terms, principles, tools and practices, as well as demonstrate their **application** skills of how to use tools efficiently and effectively. The certification can also cater for candidates seeking personal certification.

This certification will provide the **fundamental** level of knowledge to its holders and will certify that they have a solid understanding of DevOps using various tools.

This **Advanced/Leadership** level of skills and knowledge is covered in the next level of the **PeopleCert DevOps** qualification scheme provided by PeopleCert.

Learning Objective

As the **Fundamentals** level course, candidates will be introduced to basic concepts, terms, principles and tools used for DevOps as well as why DevOps is needed in modern enterprises, Scrum methodology, people and culture implications as well as the practices, processes, automation and technology used for adapting DevOps within an organization.

Holders of the **PeopleCert DevOps Fundamentals** certification, will be able to demonstrate their knowledge, understanding and practical application of:

- History and Need of DevOps
- Key concepts of DevOps
- Business Value of DevOps
- Concepts underlying C.A.L.M.S., The Three Ways, continuous delivery, and the scope of the full stack
- DevOps culture, transformational leadership and DevOps structure and teaming
- Evolution of the DevOps Practices and the 15 Essential Practices of DevOps
- Agile Project Management and Scrum Methodology
- Key concepts of cloud technology and virtualization, automation for deployment pipeline, and architecting for continuous delivery

Course Topics

Getting Started and Introduction

Module 1: The Urgency for DevOps

Module 2: Key DevOps Principles & Concepts

Module 3: The Full Stack – People & Culture Layer

Module 4: The Full Stack – Processes & Practices Layer

Module 5: The Full Stack – Technology & Automation Layer

Exam

In order to be eligible for the **PeopleCert DevOps Fundamentals** level examination a candidate must be able to demonstrate knowledge and understanding of basic DevOps terms, principles, processes, practices and tools and it is recommended that the candidate has received **Accredited Training** by a PeopleCert accredited training partner.

The exam is 1 hour and is 40 multiple choice questions. A 70% (28 marks out of 40) score is needed to pass.