

## DevOps Fundamentals

**Accreditor:** PEOPLECERT GROUP  
**Duration:** 3 days  
**Delivery:** Classroom, Live-Online (Virtual)

DevOps (a clipped compound of "development" and "operations") is a software development approach to work that combines software development (Dev) with information technology operations (Ops).

The goal of DevOps is to shorten the systems development life cycle while delivering software releases frequently, in close alignment with business objectives in a faster, better, and cost-efficient way.

The DevOps approach to work is based on three critical success factors: cultural shift, improvement of practices and processes, and leverage of automation technologies.

### With DevOps Fundamentals, you will learn about:

- 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

## Who are DevOps qualifications for?

DevOps Qualifications are designed for professionals in software and applications development, IT department, as well as business analysts, project and product managers, and anyone aspiring to gain knowledge of DevOps principles.

## Prerequisites

- Basic familiarity with agile, scrum, lean and itsm principles is beneficial.

## Course Contents

- **Introduction:** What is DevOps?
- **Module 1:** The Urgency For DevOps
- **Module 2:** Key DevOps Principles & Concepts
- **Module 3:** The Full Stack – People & Culture
- **Module 4:** The Full Stack – Processes & Practices Layer
- **Module 5:** The Full Stack – Technology & Automation
- **Wrap Up & Review**

## Exam Information

Delivery	Computer-based
Format	Closed-book format
Proctoring	Online Proctored
Duration	60 minutes, 15-minute additional time for non-native candidates
# of questions	40, simple multiple choice (1 mark per question)
Pass Grade	70%

