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DevOps Foundation
2 Days | Classroom Training

DevOps

DevOps
INSTITUTE
Registered Education Partner

Content

DevOps Foundation

Introduction

Every few years, a new buzzword appears on the IT canvas that creates hype and excitement amongst business professionals and technologists. DevOps is one such term that has been gathering momentum lately, and while it is extremely relevant in today's digital transformation scenarios, it is also quite misunderstood. So, let us explain it in the simplest way.

Many software development organizations typically spend more time in deployment activities during post-development than in the actual development stage. Needless to say, this is an overhead investment that has little business value. DevOps enables you and your organization to reduce such overheads by making **Dev**elopment and **Op**eration**s** work as close (and as lean) as possible. Simple!

Think of:

- Waterfall as one project with one big iteration and one final release
- Agile (and especially scrums and sprints) to split the same in many smaller iterations
- DevOps trying to reduce these iterations even more

Our DevOps foundation course provides an introduction to DevOps - the cultural and professional movement that emphasizes communication, collaboration, integration, and automation to improve the workflow between software developers and IT operations professionals.

Our training will enable you to not only identify gaps but also to establish the most efficient manner of finding synergies between development and operation teams.

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GLOBAL
Learning for Excellence

APEX Global is the learning solutions arm of ECCI—the leading process improvement solutions provider in Southeast Asia.

Our sole aim is to promote performance excellence among professionals. We give our customers the advantage to achieve greater success through effective, experiential and results-oriented training delivery.

We have the experience of training over 300,000 professionals in the last decade, a strong pool of evangelists and trainers with expertise in a niche array of domains and a strong regional presence. We provide an extensive portfolio of high-quality, industry-specific and functional programs coupled with high quality comprehensive training materials to deliver our ultimate "promise"—the R.E.A.L learning experience.

DevOps Institute (DOI) is the global learning community at the center of emerging DevOps practices. A strong partner of APEX Global, it brings enterprise level DevOps training and certification to the IT market in the Philippines and ASEAN. DOI has set the quality standard for relevant, current, and sustainable DevOps course content and certification while at the same time working with recognized thought leaders, a strategic examination partner, and DevOps Express.

Who is behind DOI?

Top authors, thought leaders within the DevOps community, as well as the larger IT training community. The DOI team recognizes that the DevOps community has to have a leading role in defining the curriculum and ensuring that any certified course meets the community's needs. As a result, the DOI has appointed a Board of Regents to oversee the courses offered by DOI.

Board of Regents

The Board of Regents of the DevOps Institute represents some of the leading names in the community. The board is charged with guiding the Institute's path in curriculum development as well as ensuring that all Institute certified courses meet the highest standards of quality. All Institute courses and tests are reviewed by the Board.

Key contributors include:

- Gene Kim - Author of The Phoenix Project, researcher, and DevOps evangelist
- Lou Hunnebeck - Author of ITIL 11' Service Design, and Principal at Fruition Partners
- Rohit Antao - Partner at PwC
- Sanjeev Sharma - Worldwide DevOps Lead at IBM & many more

APEX Global is the sole DOI Registered Education Partner in the entire Philippines

Our clients continue to grow

With an ever expanding IT industry facing a shortage of skilled DevOps professionals, the need for learning and development has become critical. Employees from various companies continue to take part in our programs.

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Course Overview

Who is this course for?

DevOps foundation course is designed for everyone working in the field of IT software development, IT operations, and IT Service Management (ITSM). Our program is especially beneficial for IT professionals who are seeking to explore the relationships between DevOps and Agile, Lean, and ITSM. The following will definitely benefit from this course:

- **Anyone seeking an understanding of DevOps principles, practices, and cultural considerations**
- **Employees and managers responsible for leading DevOps transformations**
- **Professionals involved in IT development, IT operations, or IT service management**
- **IT professionals working within, or approaching an Agile service design environment with the need for a detailed understanding of the Agile and DevOps interfaces**
- **Anyone who wants to develop an understanding of the cultural changes associated with adopting DevOps**

What can you expect?

Our program offers you the knowledge, skills, preparation, and the eligibility to take the DevOps Foundation exam, which is the stepping stone for the DevOps Practitioner℠ series of courses.

Our learning path will take you through 16 hours of instructor-led lectures and practical adventures. You will acquire hands-on experience that will enable you to design, develop, deploy, and operate software and services faster.

What will you learn?

Upon completion of the training program, you will be able to:

- **Learn the DevOps objectives, vocabulary, and its relationship to Agile, Lean, and ITSM**
- **Master the principles and practices to improve workflow, communication, and feedback loops with the help of automation practices including deployment pipelines and DevOps tool chains**
- **Identify critical success factors and key performance indicators to scale for the enterprise**
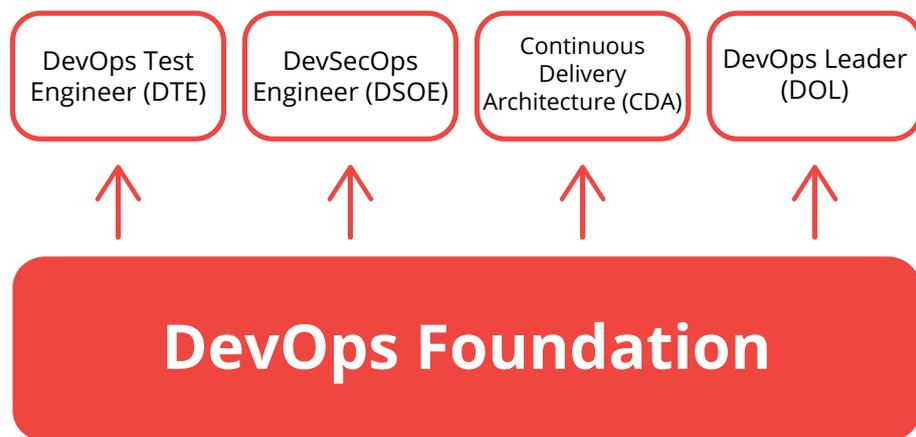- **Take the DevOps exam to validate your understanding of the course**

"

It is not the strongest of the species that survive, nor the most intelligent, but the one most responsive to change."

" Charles Darwin

Career Path

DevOps Foundation is a two-day certification course that serves as the introduction to the fundamentals of DevOps. The course stresses about how communication, collaboration, integration, and automation can improve the workflow between Developers and Operations professionals respectively. The relationship between DevOps and IT Service Management will also be discussed.

DevOps Test Engineer (DTE)	DevSecOps Engineer (DSOE)	Continuous Delivery Architecture (CDA)	DevOps Leader (DOL)

DevOps Foundation

DevOps Test Engineering (DTE) is a two-day certification course that focuses on an individual's accountability for testing software in a DevOps environment. Tests include strategy, infrastructure, tools, automation, best practices, management, and analysis. A DevOps Foundation Certificate and a general knowledge of software quality assurance testing concepts are required to take this course.

DevOps Leader (DOL) is a tactical or strategic two-day certification course made for individuals who design, influence, implement, and motivate cultural transformation in a DevOps Environment. Creating feedback loops, developing a learning environment, and conflict management are the main responsibilities of a DevOps Leader. A DevOps Foundation Certificate and completion of the given pre-class assignment are needed to take this course.

Continuous Delivery Architecture (CDA) is a two-day certification course aimed at individuals who engage in design, implementation, and management of DevOps deployment pipelines and toolchains. The program focuses on how a CDA will provide support in Continuous Integration, Delivery, Testing and ultimately, Deployment. A DevOps Foundation Certificate and completion of the given pre-class assignment are needed to take this course.

DevSecOps Engineering (DSOE) is a two-day certification course intended to make security and compliance as a consumable service. The training highlights the use of data and security science as the main manner of protecting the organization and the customer. The course will also differentiate DevOps Security from other security approaches and how data science will help. A DevOps® Foundation Certificate and familiarity with IT software development and operations responsibilities are required to take this course.

"

Devs are from Venus, Ops are from Mars.

Steven Haines
Founder and President of
Sequent Learning Networks

"

"We're hearing more lately something called 'DevOps'. It is Product Management, Development, IT operations, and even Information Security all working together and supporting one another."

"

Gene Kim
Author of *The Phoenix Project,*
researcher and DevOps Evangelist

Course Content

APEX Global has teamed up with DevOps Institute (DOI) to customize this training for the specialized learning needs in the Philippines and Southeast Asia.

This training program has seven modules:

1. Introduction
2. DevOps Principles
3. DevOps Culture
4. Organizational Considerations
5. DevOps Practices
6. DevOps and Automation
7. DevOps and IT Service Management Processes

MODULE 1

Introduction

In advancing in today's IT environment, familiarization with the definition, value, history, building blocks, and best practices of DevOps is key to maximizing its potential.

In this module, you will learn that continuous customer satisfaction is the main driver for DevOps towards understanding Quantification, Collaboration, and Automation.

Using these principles to graduate into the philosophy of efficient development, deployment and operation, DevOps creates a real possibility of attaining the highest quality software possible while aligning your learnings.

MODULE 2

DevOps Principles

This module will help you understand the essence of DevOps: that it is not a fixed methodology or process. It is a collection of principles that will enable an individual to successfully create a DevOps environment based on the guiding philosophy of Automation, Culture, Measurement, and Sharing as the central points.

MODULE 3

DevOps Culture

The primary characteristic of DevOps culture is increased collaboration between the roles of development and operations. DevOps is not easy to adopt, much less successful at in terms of transforming your organization into an agile, rapid, business-aligned machine. DevOps is not about having the best change management or IT automation toolset. It's about people and process.

DevOps culture stresses small, multidisciplinary teams, who work autonomously and take collective accountability for how actual users experience their software. This module will familiarize you with the required culture and help you create an environment for benefits of DevOps to bloom.

MODULE 4

Organizational Considerations

For organizations aiming to improve time to market, it is essential to identify five categories that should be considered in this aspect. This module will help you understand the organizational considerations to effectively deploy tools and gauge the fundamental issues faced at the organizational level.

You will learn the facets of collaborative culture, efficient agile development process, strong engineering practices and automation, continuous delivery capabilities, and security.

MODULE 5

DevOps Practices

There are numerous fundamental DevOps practices. You will gain experience in the techniques, processes, and toolsets used in software development that are leveraged to manage the deployment and configuration of systems, applications, and middleware. The module will teach you various tests such as load, functional, integration, and unit tests.

You will be able to oversee the development, testing, deployment, and support of software releases while establishing and maintaining consistency of a product's performance with its requirements, design, and operational information throughout its life.

MODULE 6

DevOps and Automation

This module will guide you through the range of opportunities for automation in DevOps, along with the choice of tools that you can use. It is advantageous to include the concept of automation through DevOps in order to ensure speedy feedback throughout the development process. The sooner you get feedback, the quicker you can take action to resolve problems. Just like security and performance, DevOps automation requires continuous monitoring and improvement while the pipeline is still active.

You will also be given a firm understanding of automation needs, bottlenecks, return on investment, assessments, and re-evaluations in this module.

DevOps and IT Service Management Processes

IT Service Management and DevOps are currently being viewed by the industry as two sides of the same coin due to their polar differences. However, both these disciplines provide a powerful leverage when their synergy is properly utilized.

In this module, you will gain knowledge about the automated infrastructure project that provisions servers for deployment, understands release management readiness, and integrates it into the automated build process.

You will also learn how to define pre-authorized changes and deployments from ones that require authorization and ensure that it is captured in a trusted system of record.

This also entails Devs to be more involved in the process and responsibility ownership role while familiarizing them with Ops knowledge and capabilities.

"

The most powerful tool we have as developers is automation.

"
Scott Hanselman
Principal Program Manager at Microsoft

Course Assessment

The certification is governed and maintained by the DevOps Institute. The exams are delivered through Peoplecert, an independent, global examination partner.

Here are some quick facts about the exam:

- The DevOps foundation exam can be taken after finishing this course (DOI-approved course).
- It is a proctored, closed book, computer or paper-based exam.
- APEX global will assist you with booking the exam.
- The exam comprises of 40 multiple choice questions that should be answered within 60 minutes.
- The minimum passing score is 65%.

Faculty Profile

Delivered by our established in-house experts, global network of trainers, speakers and facilitators through established processes, this certification course will introduce you to the most relevant and practical aspects of project management.

APEX Global Expert Council (AGEC) works closely with leading industry experts to consistently create, review and update the certification learning objectives.

This ensures that what our clients learn is instantly applicable to any role and aligned to the needs of respective industries.

We collaborate with reputable partners on the design and development of course materials, so your learning is shaped by practical experience, expert insights and valuable case studies.

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