Fundamentals of DevOps (ICP-FDO Certification)

Category: Project Management & Business Skills | **Vendor:** Various

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Certification: Certified Professional in Foundations of DevOps (ICP-FDO), Certified Scrum Developer

Course Overview

Gain the skills to increase ROI when building and delivering software in an Agile environment. With this DevOps training, you learn how to select appropriate tools and configure them to form a continuous development-delivery-operations support pipeline. This course qualifies for the ICAgile Certified Professional in Foundations of DevOps (ICP-FDO) certification and Scrum Alliance SEUs.

About This Course

Gain the skills to increase ROI when building and delivering software in an Agile environment. With this DevOps training, you learn how to select appropriate tools and configure them to form a continuous development-delivery-operations support pipeline. This course qualifies for the ICAgile Certified Professional in Foundations of DevOps (ICP-FDO) certification and Scrum Alliance SEUs.

Who Should Attend

While the course qualifies for an ICAgile certificate, the class is not written like an exam prep course. The material is designed for hands-on training in DevOps.

This course exposes students to different tools employed by DevOps practitioners, including:

- Git for configuration management

- Maven for build automation

- Jenkins for continuous integration orchestration

- SonarQube for code analysis

- Docker for application containerisation

Prerequisites & Entry Requirements

General Prerequisites:

Prior to attending this course, attendees should have attended:

- Course Agile Fundamentals: Scrum, Kanban, Lean and XP (AGFUND) Agile Fundamentals: Scrum, Kanban, Lean and XP, or

- Course Scrum Alliance Certified Scrum Master (ACSM) Certified ScrumMaster®

- Work experience in Agile software development

- Knowledge of system administration, and source code versioning

Recommended Experience:

- Work experience as an DevOps Engineer, DevOps Manager, Tester, Hands-On Test Manager, or other roles that ensure the development cycle on software projects is achieved through optimised schedules, costs, and quality.

- Students will be emailed a short document to review before class. Understanding the content of this pre-course reading is required before class, so more in-class time can be devoted to implementing DevOps.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Achieve the ICAgile Certified Professional in Foundations of DevOps (ICP-FDO) recognition

- Execute Continuous Deployment (CD) by coding sharp deployment pipelines

- Create real-time feedback by configuring continuous integration and building automation tools

- Optimise operations by leveraging virtualisation, containers, and cloud technologies

- Use a Lean toolkit to foster the ultimate DevOps culture

- ICAgile: To obtain ICAgile Certified Professional in the Fundamentals of DevOps, students will need to pass the Learning Tree exam. Once notification of passing the exam has been received, contact Learning Tree's customer service to request registration with ICAgile.

- Scrum Alliance: This course qualifies for the 3-day technical portion of the Certified Scrum Developer. To obtain Scrum Education Units (SEUs), students will need to pass the Learning Tree exam. Once notification of passing the exam has been received, contact Learning Tree's customer service to request registration with Scrum Alliance.

Detailed Course Outline

DevOps Thinking

Trends in DevOps

- Augmenting the benefits of Agile through DevOps

- Refining the definition of DevOps for better outcomes

- Asserting the core objectives of modern DevOps

DevOps culture

- Establishing the core foundations of system thinking

- Enabling communication between development and operations

- Developing a Kaizen culture for continuous improvement

Roles in DevOps

Team structure

- Growing collaborative teams

- Creating an automation culture

Governance

- Defining governance to balance agility and rigour

- Dealing with formal operation requirements

Scripting Configuration Management

Version management

- Keeping strict control through ubiquitous commits

- Designing infrastructure as code

Configuration items

- Enforcing controls through itemisation

- Computerising dependencies through configuration controls

- Leveraging tools for low-risk

Real-Time Feedback through Continuous Integration

Objectives and principles

- Developing rapid feedback loops through CI

- Aligning DevOps to the CI principles

Mastering CI practices

- Reducing risks through frequent commits

- Keeping the build healthy as a primary control of integrity

- Automating inspections and tests for better control

- Automating the build process for continuous feedback

Efficient Operations through Continuous Delivery

CD mindset

- Removing the complexity of deployment through software

- Delineating CI and CD to achieve complementary objectives

Principles of CD

- Creating a repeatable process for constant quality

- Automating end to end for hands-free operations

- Augmenting ROI through incremental improvements

Leveraging leading CD practices

- Reducing deployment time through single builds

- Ensuring consistency through a unified deployment process

Deployment pipeline

- Organising a deployment pipeline to optimise code to production time

- Gating code changes through code staging

- Reducing Risks with roll-back capabilities

- Adjusting the pipeline for on-premise, SaaS, and new deployment models

Ensuring Quality with Test Automation

DevOps involvement in Test Automation

- Ensuring the pipeline delivers on Test Automation benefits

- Influencing test automation practices through DevOps capabilities

Test types and defect management

- Automating the testing at multiple levels

- Automating test defect management for faster corrections

Optimising Infrastructure Costs

Optimising infrastructure

- Using virtual environment to maximise efficiency

- Using the cloud to lower HW dependence

- Monitoring systems for high availability

Data management

- Dealing with database level upgrades

- Managing Test Data as a configuration Item

Skills You Will Learn:

- Achieve the ICAgile Certified Professional in Foundations of DevOps (ICP-FDO) recognition

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Frequently Asked Questions

Q: What delivery options are available for Fundamentals of DevOps (ICP-FDO Certification)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Fundamentals of DevOps (ICP-FDO Certification) course helps prepare you for the Certified Professional in Foundations of DevOps (ICP-FDO), Certified Scrum Developer certification path.

Q: How many CPD hours does this course provide?

The 3-day Fundamentals of DevOps (ICP-FDO Certification) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Fundamentals of DevOps (ICP-FDO Certification) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Fundamentals of DevOps (ICP-FDO Certification)?

Yes, we provide corporate training, dedicated training, and closed classes for Fundamentals of DevOps (ICP-FDO Certification). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Fundamentals of DevOps (ICP-FDO Certification), Agile Training, FDO

Q: Why choose Nexus Human for Fundamentals of DevOps (ICP-FDO Certification)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Fundamentals of DevOps (ICP-FDO Certification) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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