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# DevOps Training and Certification: Master
## 5 days (35 hours)

## Presentation

This certification focuses on adding practical skills to knowledge, enabling a DevOps Master to successfully facilitate DevOps in a team and promote its principles throughout the organization. DevOps is a set of best practices that emphasize the collaboration and communication of IT professionals (developers, operators and support staff) in the lifecycle of applications and services, leading to :

- Continuous integration: easy transfer from Development to Operations and Support
- Continuous deployment: release continuously or as often as possible
- Continuous feedback: soliciting feedback from stakeholders at every stage of the lifecycle

The DevOps Master certification tests the candidate's mastery of DevOps principles and skills. A DevOps Master is capable of facilitating an organization's transition to DevOps, and growing the business in a way that delivers the greatest possible value to a customer.

The DevOps Master :

- Type of exam: Multiple choice on computer (an exam voucher will be issued to students at the end of the course)
- There will be an expiry date of 2 weeks on the test voucher to allow time for the test. additional preparation after the course and to encourage trainees to complete their exams while the training content is still fresh
- Number of questions: 50
- Passing grade: 65
- Open book / notes : No
- Authorized electronic equipment / aids: No
- Time allowed for the exam: 120 minutes

## Objectives

- Understands DevOps principles

- DevOps Master exam preparation

# Target audience

The DevOps Master certification is aimed at anyone working on a DevOps team or in an organization considering the transition to a DevOps way of working. The target group includes :

- Application or service developers and product owners
- Agile Scrum Masters
- Project managers
- Test engineers
- Test Managers
- IT Service Managers
- Computer operations
- Process managers
- Lean IT practitioners

# Prerequisites

Candidates must have a basic knowledge of DevOps principles, IT service management, Lean and Agile concepts.

It is strongly recommended that trainees read the following texts before taking this course: The

Phoenix Project

- Gene Kim, Kevin Behr, George Spafford, ISBN-10: 0988262576, ISBN-13: 978-0988262577, IT Revolution Press (January 10, 2013)

Effective DevOps: Building a Culture of Collaboration, Affinity, and Tooling at Scale

- Jennifer Davis, Katherine Daniels, ISBN-13: 978-1491926307, ISBN-10: 1491926309, O'Reilly Media; 1 edition (June 25, 2016)

Continuous Delivery: Reliable Software Releases through Build, Test, and Deployment Automation

- Jez Humble, David Farley, ISBN-13: 978-0321601919, ISBN-10: 0321601912, Addison-Wesley Professional; 1 edition (August 6, 2010)

Success with Enterprise DevOps (copy provided in course material)

- Koichiro (Luke) Toda, President Strategic Staff Services Corporation and Director of TPS Certificate Institution, Nobuyuki Mitsui, CTO of Strategic Staff Services Corporation White Paper; June 2016

The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations

- Gene Kim, Jez Humble, Patrick Debois, John Willis, ISBN-10: 1942788002, ISBN-13: 978-1942788003, IT Revolution Press; 1 edition (2016)

Other sources

- http://newrelic.com/devops
- http://devops.com/

# Examination prerequisites

- Completion of training
- Successful completion of practical assignments

# DevOps Certification: Master training program

## Basic DevOps concepts and theory

- Part 1 - DevOps basics

## DevOps Master Concepts and Theory

- Part 2 - DevOps adoption
- Part 3 - Planning, requirements and design
- Part 4 - Development and Deployment
- Part 5 - Operation and Scaling
- Part 6 - End of life

## Exam preparation Practical

## assignments

# Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

# Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.