



DEVOPS ESSENTIALS PROFESSIONAL CERTIFICATE



DEPC® Version 032020

CertiProf®

DevOps Essentials Professional Certificate DEPC[®]

Syllabus V032020

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Introduction

DevOps is more than a technology or a tool set, it's a mindset that requires cultural evolution. It is people, processes and the right tools to make your application Life Cycle faster and more predictable.

DevOps Essentials explores the change in mindset and process from traditional approaches, much more so if the organization is not already embracing Agile principles.

The organization must adopt a collaborative approach that brings everyone involved in delivering together, not just Development and Operations. This certification provides an overview of DevOps core concepts.

Learning Objectives

1. Overview about DevOps.
2. History of DevOps.
3. The purpose of DevOps.
4. DevOps Introduction.
5. Definitions of DevOps.
6. DevOps benefits.
7. Software Development Life Cycle.
8. Agile Software Development.
9. Continuous Integration.
10. Roles and Responsibilities in DevOps.
11. Product Manager.
12. Developers.
13. Operations.
14. Business.
15. Organizational Challenges.
16. Configuration Management.
17. Continuous Delivery.
18. Continuous Integration.
19. DevOps and Agile.
20. DevOps and Scrum.
21. DevOps and ITSM (ITIL).
22. DevOps Culture.
23. Incremental DevOps Adoption.
24. DevOps Tools (Overview).
25. Current Report Analysis.

Certification Exam

- Format: Multiple choice.
- Questions: 40.
- Language: English / Spanish / Portuguese.
- Pass Score: 24/40 or 60 %.
- Duration: 60 minutes.
- Open book: No.
- Delivery: This examination is available online.
- Supervised: It will be at the Partner's discretion.

Target Audience

This certification is appropriate for anyone who is interested in becoming a DevOps professional.

Content

What is DevOps?

- What is DevOps?
- Definitions of DevOps
- What is not DevOps?
- Definition of DevOps According to its Leaders

History

- History

DevOps Purpose

- DevOps Purpose

DevOps Benefits

- Benefits
- Stability

Workshop 30 Minutes

- Group Analysis

DevOps Pillars

- DevOps Pillars

Concepts

- Just-in-time (JIT)
- Toyota Production System (TPS)
- Kaizen
- BIMODAL - Gartner

BIMODAL - Gartner
DevSecOps
New Operational Model
Scrum
Work in Progress (WIP)
Service Level Agreement (SLA) & Operational Level Agreement (OLA)
Plan-Do-Check-Act Cycle (PDCA Cycle)
Definition of Done (Agile/Scrum)
Kanban for DevOps Teams

Development

Software Development Life Cycle
Agile Software Development
The Waterfall Model
ModeloV
DevOps

Continuous Integration

Continuous Integration
Continuous Integration Benefits

Continuous Delivery

Continuous Delivery

Continuous Learning

Continuous Learning

CALMS Model

CALMS Model

DevOps, Other Recommended Practices and Frameworks

DevOps & Agile
DevOps & Scrum
DevOps & ITSM (ITIL)

Workshop 30 Minutes

Workshop

DevOps Culture

DevOps Culture
DevOps Oriented Culture

DevOps Team

Organization-Legacy
Traditional Operators and Developers
Dedicated DevOps Teams Created

DevOps Total
Team Roles
Service Management Office (SMO)

Incremental Devops Adoption

Incremental Adoption

System Thinking

System Thinking
Learning & Experimentation

Feedback

Feedback

Tools for Supporting DevOps Culture

DevOps Tools
DevOps Tools: GIT
Cloud DevOps
Docker
JS
Chef
Jenkins
Puppet

Gartner DevOps Model

Gartner DevOps Model
P.P.T & Culture
Gartner DevOps Model

DevOps Checklist & DevOps Report Status

DevOps Maturity Model
DevOps - Checklist
Self-assessment
Reporte DevOps 2017

Workshop 30 Minutes

Workshop

References

Literature
References