DEVOPS (CM-DOC)

Syllabus

Our goal at CertMind is to certify the skills of professionals who perform in the context of Technology. To achieve this, we seek to ensure that professionals demonstrate their skills and knowledge by applying an International Certification Exam.

The purpose of **DevOps Certification** is to demonstrate that the professional has a practical understanding of the concepts, principles, and structure of the DevOps culture, to promote agile initiatives in collaborative environments that integrate product development and service operation.

Who should take this test?

This exam is ideal for people or teams involved in product development, software development, or IT service delivery, interested in adopting DevOps-based agility best practices.

Roles such as: IT staff, isoftware engineers, application and productdevelopers, IT architects, business analysts, data analysts, project managers and leaders, developers and system integrators.

Recommended training time

20 hours, segmented into 5 sessions of about 4 hours.

Certification Exam Format

- **Type:** 6 Oquestion exam, multiple choice and single answer.
- **Running time:** 90 minutes.
- **Minimum note to approve:** 42/60 or 70%.
- **Additional time:** If the professional does not take the exam in their native language, they will have an additional 15 minutes and is also allowed to use a dictionary.
- **Pre-requis:** It is highly recommended that the professional attend formal DevOps training and also have knowledge in information technologies.
- **Supervision:** Yes.
- **Open book:** No.
- **Mode:** Available online only.
- **Renewal of certification:** Yes. It takes 20 PUC's (Professional Update Credits) every 3 years for certification renewal..

DEVOPS (CM-DOC)

Syllabus

In order to ensure that the professional has the minimum skills and knowledge that can be applied in a real environment, the review addresses the following topics:

Module 1: Introduction

In this module, the professional must demonstrate his knowledgein the basicconcepts, principles and motivators of DevOps, in addition to the considerations on organizational culture..

1.1. History, contextualization and basics of DevOps
1.2. Digital transformation, cultura and organizational change
1.3. DevOps value for business and IT
1.4. Relationship with Agile, Lean and ITSM
1.5. DevOps Principles

Module 2: Planning and Design

In this module, the professional must clearly understand how product planning and design is performed following the DevOps principles.

2.1 Its applications and services lifecycle
2.2 Scope of a DevOps project
2.3 Visual management
2.4 Service level agreements and requirements
2.5 Workflows, communication and feedback (feedback)

Module 3: Development and deployment

In this module, the professional must understand how product development and deployment is performed following devOps principles; and understand the importance of tools.

3.1 Deployment and continuous integration strategies
3.2 Test strategies, test environments and results analysis
3.3 Automation practices
3.4 Considerations for the selection of testing and automation tools
3.5 Exploration Exploration Days)

DEVOPS (CM-DOC)

Syllabus

Module 4: Operation and scaling

In this module, the professional will know and understand how to integrate product development teams with the operations teams to ensure successful deliveries in collaborative environments.

4.1 Preparing the operating environment
4.2 Configuration management and version control
4.3 Clouds technology in an organization with DevOps
4.4 Collaborative platform considerations
4.5 Troubleshooting (Troubleshooting)
4.6 DevOps escalation

Module 5: End of Service Life

In this module, the professional must clearly understand the life cycle of a product or service, and how to ensure that they are properly removed from the operation by reducing the negative impact on customer value.

5.1 End-of-life of a product or service
5.2 Considerations for removing a product or service from the operation
5.3 Component dependency considerations
5.4 Support and maintenance of a recalled product or service

Module 6: Measurement and

In this module, the professional must understand the importance of measuring the results of products developed with DevOps initiatives and how they contribute to business improvement.

6.1 Importance of measurement
6.2 Technical metrics and business metrics
6.3 Selecting the right metrics
6.4 Critical Success Factors (CSFs) and Key Performance Indicators (KPIs)
6.5 Improvement approach