

**AZ-400T00-A**

## **Designing and Implementing Microsoft DevOps solutions**

32 horas

Azure

Microsoft

### **INTRODUÇÃO**

This course provides the knowledge and skills to design and implement DevOps processes and practices. Students will learn how to plan for DevOps, use source control, scale Git for an enterprise, consolidate artifacts, design a dependency management strategy, manage secrets, implement continuous integration, implement a container build strategy, design a release strategy, set up a release management workflow, implement a deployment pattern, and optimize feedback mechanisms

### **OBJETIVO DO CURSO**

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### **PÚBLICO-ALVO**

Audience profile

Students in this course are interested in designing and implementing DevOps processes or in passing the Microsoft Azure DevOps Solutions certification exam.

### **PRÉ-REQUISITOS**

Prerequisites

Successful learners will have prior knowledge and understanding of:

- Cloud computing concepts, including an understanding of PaaS, SaaS, and IaaS implementations.
- Both Azure administration and Azure development with proven expertise in at least one of these areas.
- Version control, Agile software development, and core software development principles. It would be helpful to have experience in an organization that delivers software.

## COURSE OUTLINE

### Module 1: AZ-400: Get started on a DevOps transformation journey

This learning path helps you understand what DevOps is and how to plan for a DevOps transformation journey.

### Module 2: AZ-400: Development for enterprise DevOps

This learning path examines the key Git features that organizations must plan for when designing their enterprise DevOps.

### Module 3: AZ-400: Implement CI with Azure Pipelines and GitHub Actions

This learning path introduces the continuous integration concept using Azure Pipelines and GitHub Actions and provides instruction on configuring those services and building applications.

### Module 4: AZ-400: Design and implement a release strategy

This learning path explains the concepts of continuous delivery and releases strategy considerations for setting up deployment stages and your delivery and deployment cadence, and lastly, setting up your release approvals.

### Module 5: AZ-400: Implement a secure continuous deployment using Azure Pipelines

This learning path helps you understand automated release gates, secrets, and secret management in your pipeline. You will learn how to implement alerting mechanisms, report on your quality, and get notified by using service hooks.

### Module 6: AZ-400: Manage infrastructure as code using Azure and DSC

This learning path explores the “Infrastructure as Code” (IaC) concept and how to manage your operations environment the same way you do applications or other code for general release.

### Module 7: AZ-400: Design and implement a dependency management strategy

This learning path examines dependency management in software development, how to identify them in your codebase and how to package and manage dependencies in package feeds.

### Module 8: AZ-400: Implement continuous feedback

This learning path introduces the continuous feedback concept and describes how to implement it in your DevOps cycle.

### Module 9: AZ-400: Implement security and validate code bases for compliance

This learning path explores an infrastructure and configuration strategy and appropriate toolset for a release pipeline and application infrastructure. It explains compliance and security implementation in your application infrastructure.