

DevOps foundations: The core principles and practices (AZ-2008)

Duration: 1 day

Audience: Professionnel TI

Who is this training for?

This course is designed for students who are interested in exploring DevOps culture and practices.

Training objectives

By the end of this course, students will be able to:

- Understand DevOps, its culture, goals, benefits, and its application lifecycle.
- Implement DevOps practices and foster a DevOps culture.
- Use source control, version control, shift-left strategy, and continuous integration.
- Use continuous delivery, infrastructure-as-code (IaC), and progressive exposure techniques.
- Establish operational excellence, shift-right testing, observability, Site Reliability Engineering, and platform engineering

Summary

This course provides fundamental level skills in DevOps practices. Students will learn about the DevOps culture and how to optimize application lifecycle management through Agile planning and management, version control, continuous integration, continuous testing, shift-left testing, continuous deployment/delivery, infrastructure as code, observability, security monitoring, Site Reliability Engineering, and platform engineering.

Course outline

Learning Path 1: DevOps Foundations: The Core Principles and Practices

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Module 1: Discover DevOps

- Module 2: Plan with DevOps
- Module 3: Develop with DevOps

- Module 4: Deliver with DevOps
- Module 5: Operate with DevOps

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants gradually discover how to design and manage analytics solutions with Power BI through hands-on exercises inspired by real-world business scenarios, promoting immediate application of the learnings.

They learn how to prepare and model data, create impactful visualizations, develop interactive reports and dashboards, and apply analytical techniques to support data-driven decision-making.

Led by a Microsoft Certified Trainer (MCT), the training emphasizes interactivity and the development of practical, transferable skills for effectively using Power BI in a professional environment.

Prerequisites

Students should have the following knowledge and experience before attending this course:

- Basic familiarity with IT terms and concepts

Recommendations

- Basic knowledge of software development or IT administration
- General understanding of IT environments (applications, infrastructure)
- Basic notions of versioning (Git)
- Knowledge of cloud and Azure concepts (asset)
- Interest in collaborative practices and automation

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