

AZ-400T00-A – Designing and Implementing Microsoft DevOps Solutions

COURSE OVERVIEW

This course provides the knowledge and skills to design and implement DevOps processes and practices. Participants 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. This course provides organizations and institutions that are currently designing or implementing PPP courses with practical and results-orientated capacity building experience that will further their PPP planning and implementation objectives.

WHO SHOULD ATTEND?

Participants who are interested in designing and implementing DevOps processes or in passing the Microsoft Azure DevOps Solutions certification exam.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Design and implement DevOps strategies, including version control, Agile planning, and project management.
- Establish continuous integration (CI) processes with Azure Pipelines, GitHub Actions, and automated testing.
- Implement continuous delivery (CD) for deploying applications to various environments using Azure DevOps.
- Manage infrastructure as code (IaC) using tools like ARM templates, Terraform, and Azure CLI.
- Implement security and compliance practices in DevOps processes, including security testing and monitoring.
- Configure and manage release pipelines for efficient and reliable deployments.
- Monitor and optimize feedback mechanisms to improve application performance and reliability.
- Integrate Azure DevOps with third-party tools for enhanced collaboration and automation.
- Prepare for the Microsoft Certified: DevOps Engineer Expert certification exam.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- 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.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded