Implementing Continuous Integration (AZ-400.2)

Modality: On Demand

Duration: 8 Hours

This course prepares you for the AZ-400 Exam leading to AZ-400 Certification. This course does not include the Official Exam Voucher, however, you can request to purchase the Official Exam Voucher separately.

About this course:

This course provides knowledge and skills to implement the DevOps practices of continuous integration. Students will learn how to implement continuous integration in an Azure DevOps pipeline, how to manage code quality and security principles, and how to implement a container build strategy.

Course Objective:

- Explain why continuous integration matters
- Implement continuous integration using Azure DevOps
- Configure builds and the options available
- Create an automated build workflow
- Integrate other build tooling with Azure DevOps
- Create hybrid build processes
- Describe what is meant by code quality and how it is measured
- Detect code smells
- Integrate automated tests for code quality
- Report on code coverage during testing
- Add tooling to measure technical debt
- Detect open source and other licensing issues
- Implement a container build strategy

Audience:

- IT Support officer

Prerequisite:

- Students should have fundamental knowledge about Azure, version control, Agile software development, and core software development principles. It would be helpful to have experience in an organization that delivers software.
- It is recommended that you have experience working in an IDE, as well as some knowledge of the Azure portal. However, students who may not have a technical background in these technologies, but who are curious about DevOps practices as a culture shift, should be able to follow the procedural and expository explanations of continuous integration regardless.

Course Outline:

1 | Implementing Continuous Integration in an Azure DevOps Pipeline

- Continuous Integration Overview
- Implementing a Build Strategy
- Module 1 Review Questions

2 | Managing Code Quality and Security Policies

- Managing Code Quality
- Managing Security Policies
- Module 2 Review Questions

3 | Implementing a Container Strategy

- Implementing a Container Build Strategy
- Module 3 Review Questions

4 | Course Completion

- Final Exam