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Course Outline :: AZ-400T07-A::

Module Title	:	AZ-400T07-A: Designing a DevOps Strategy
Duration	:	1 day

About this course

This course provides the knowledge and skills to design a DevOps strategy. Students will learn how to plan for transformation, select a project, and create team structures. Students will also learn how to develop quality and security strategies. Planning for migrating and consolidating artifacts and source control will also be covered.

Audience profile

Students in this course are interested in planning DevOps projects or in passing the Microsoft Azure DevOps Solutions certification exam.

At course completion

After completing this course, students will be able to:

- Plan for the transformation with shared goals and timelines.
- Select a project and identify project metrics and KPIs.
- Create a team and agile organizational structure.
- Develop a project quality strategy.
- Plan for secure development practices and compliance rules.
- Migrate and consolidate artifacts.
- Migrate and integrate source control measures.

Course Outline

Module 1: Planning for DevOps

In this module, students will learn about transformation planning, project selection, and team structures.

Lessons

- Transformation Planning
- Project Selection
- Team Structures

Lab : Agile Planning and Portfolio Management with Azure Boards

After completing this module students will be able to:

- Plan for the transformation with shared goals and timelines
- Select a project and identify project metrics and KPIs

- Create a team and agile organizational structure

Module 2: Planning for Quality and Security

In this module, students will learn about developing a quality strategy and planning for secure development.

Lessons

- Planning a Quality Strategy
- Planning Secure Development

Lab : Feature Flag Management with LaunchDarkly and AzureDevOps

After completing the module, students will be able to:

- Develop a project quality strategy
- Plan for secure development practices and compliance rules.

Module 3: Migrating and Consolidating Artifacts and Tools

In this module, students will learn about migrating and consolidating artifacts, and migrating and integrating source control measures.

Lessons

- Migrating and Consolidating Artifacts
- Migrating and Integrating Source Control

Lab : Integrating Azure Repos and Azure Pipelines with Eclipse

After completing this module, students will be able to:

- Migrate and consolidate artifacts
- Migrate and integrate source control measures

Prerequisites

- 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.
- Also, 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.