Implementing Dependency Management (AZ-400T04)

Modality: Virtual Classroom

Duration: 1 Day

SATV Value: 1

About this Course:

This is an advanced-level course focusing on the implementation and incorporation of dependency management controls. Professionals and students will gain conceptual knowledge of artifacts management and will develop the skills required to identify code dependencies and incorporate the version strategy. Upon the completion of this course, professionals can design an effective dependency management strategy abiding by compliance rules and security regulations.

This course also sheds light on the key concepts of dependency management implementation such as Package Publication, Code Dependencies Identification, Code Conversion, Package Feed Protected Entrance Development, and Standardized Packages Types Recognition. The teachings of this course will also prepare students and candidates for success in the Microsoft Azure DevOps Solutions Certification Exam.

Course Objectives:

The core objective of this course is to help professionals develop a better understanding and sound knowledge of the following key concepts:

- Fundamentals of Artifact Management Practices and Tools
- Enabling Reuse & Sharing by Common Packages Abstraction
- Identifying Code Dependencies and Code Conversion into Packages
- Recognizing & Recommending Standardized Packages Versions & Types
- Publishing Packages and Incorporating Version Strategy
- Understanding Security Compliance and Regulations
- Corporate Standards and Security Packages License & Security Compliance
- Developing and Restructuring Build Pipelines for Accessing License Rating
- Developing Package Feeds Protected Entrance

Audience:

This course is tailored for the following group of professionals and interested candidates:

- Software Developers
- Students who want to learn Implementing Dependency Management Controls
- Candidates striving to clear Microsoft Azure DevOps Solutions Certification Exam

Prerequisites:

Professionals planning to enroll in Implementing Dependency Management (AZ-400T04) course must comply with the following prerequisites:

- Foundational Knowledge of Version Control and Microsoft Azure
- Conceptual Understanding of Agile and Software Development Core Concepts
- Working Experience in a Software Development Company is Highly Recommended

Course Outline:

Module 1: Designing a Dependency Management Strategy

Lessons

- Introduction
- Packaging dependencies
- Package management
- Implement a versioning strategy

Lab : Updating packages

After completing this module, students will be able to:

- Recommend artifact management tools and practices
- Abstract common packages to enable sharing and reuse
- Inspect codebase to identify code dependencies that can be converted to packages
- Identify and recommend standardized package types and versions across the solution
- Refactor existing build pipelines to implement version strategy that publishes packages
- Manage security and compliance

Module 2: Manage security and compliance

?Lessons

- Introduction
- Package security
- Open source software
- Integrating license and vulnerability scans

After completing this module, students will be able to:

- Inspect open source software packages for security and license compliance to align with corporate standards
- Configure build pipeline to access package security and license rating
- Configure secure access to package feeds