

## AZ-400T04 Implementing Dependency Management

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### Course Summary

#### Description

This 1-day course provides the knowledge and skills to implement dependency management. Students will learn how to design a dependency management strategy and manage security and compliance. This class is part of the following 4-day comprehensive class : <https://www.protechtraining.com/az-400-azure-devops-engineer-part-1-pt21918>

#### Objective

After completing this course, 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
- 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

#### Topics

- Designing a Dependency Management Strategy
- Manage security and compliance

#### Audience

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

#### Prerequisite

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.

#### Duration

One Day

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### Course Outline

- I. *Designing a Dependency Management Strategy*
  - A. Introduction
  - B. Packaging dependencies
  - C. Package management
  - D. Implement versioning strategy
  - E. Recommend artifact management tools and practices
  - F. Abstract common packages to enable sharing and reuse
  - G. Inspect codebase to identify code dependencies that can be converted to packages
  - H. Identify and recommend standardized package types and versions across the solution
  - I. Refactor existing build pipelines to implement version strategy that publishes packages
  - J. Manage security and compliance
  
- II. *Manage security and compliance*
  - A. Introduction
  - B. Package security
  - C. Open source software
  - D. Integrating license and vulnerability scans
  - E. Inspect open source software packages for security and license compliance to align with corporate standards
  - F. Configure build pipeline to access package security and license rating
  - G. Configure secure access to package feeds