

# € TRAINING

Azure DevOps TFS





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## Introduction:

This training program explores advanced strategies and best practices for using Azure DevOps TFS to enhance software development and project management. It empowers participants to leverage Azure DevOps TFS for efficient project delivery and improved team collaboration.

## Program Objectives:

By the end of this program, participants will be able to:

- Understand the core functionalities of Azure DevOps TFS.
- Implement best practices for version control and project management.
- Utilize build and release pipelines effectively.
- Optimize collaboration and communication within development teams.
- Troubleshoot common issues and configure advanced features in Azure DevOps TFS.

## Targeted Audience:

- Software Developers.
- DevOps Engineers.
- Project Managers.
- IT Professionals.
- System Administrators.

## Program Outline:

### Unit 1:

#### Introduction to Azure DevOps TFS:

- Overview of Azure DevOps and TFS functionalities.
- Setting up and configuring an Azure DevOps environment.
- Navigating the Azure DevOps interface.

- Key components: Boards, Repos, Pipelines, and Artifacts.
- Integrating Azure DevOps TFS with other tools.

## Unit 2:

### Version Control and Source Code Management:

- Managing repositories and branching strategies.
- Implementing Git version control in Azure DevOps.
- Configuring pull requests and code reviews.
- Handling merge conflicts and resolving issues.
- Best practices for source code management.

## Unit 3:

### Build and Release Pipelines:

- Creating and configuring build pipelines.
- Automating builds and deployments.
- Setting up continuous integration and continuous delivery CI/CD.
- Managing release pipelines and environments.
- Monitoring and troubleshooting pipeline issues.

## Unit 4:

### Project Management and Agile Practices:

- Configuring boards and backlogs for project management.
- Using Agile methodologies with Azure DevOps.
- Managing work items, sprints, and user stories.
- Tracking project progress and performance metrics.
- Customizing dashboards and reporting.

## Unit 5:



## Advanced Configuration and Troubleshooting:

- Configuring advanced features and integrations.
- Managing security and access controls.
- Troubleshooting common issues and performance problems.
- Optimizing Azure DevOps TFS for scalability and efficiency.
- Best practices for maintaining and updating your Azure DevOps environment.