



## **End-to-End Agile Delivery with Azure Boards, Repos, Pipelines & Test Plans**



**AGILE LEADERS**  
Training Center



## **End-to-End Agile Delivery with Azure Boards, Repos, Pipelines & Test Plans**

### **Course Overview:**

This hands-on, practical training course dives into Agile software development principles and how to implement them effectively using Azure DevOps. From sprint planning and backlog refinement to CI/CD pipelines and test automation, participants will learn how to build a fully agile environment using Microsoft's DevOps toolchain. The course guides learners through configuring Azure Boards, Repos, Pipelines, Test Plans, and Artifacts — all within a collaborative framework that supports lean software delivery and real-world DevOps practices.

### **Target Audience:**

- Agile Developers & Engineers
- Scrum Masters and Product Owners
- Software Project Managers
- DevOps Engineers
- Technical Leads

### **Targeted Organizational Departments:**

- Software Development
- IT Operations
- QA & Testing
- Project Management Office PMO

### **Targeted Industries:**

- Technology & Startups
- Financial Services
- Healthcare & Pharma
- E-commerce & Retail
- Government & Public Sector



## Course Offerings:

Participants will learn to:

- Apply Agile principles in Azure DevOps projects
- Use Azure Boards to manage epics, features, and user stories
- Create efficient Git workflows in Azure Repos
- Implement CI/CD with Azure Pipelines
- Set up automated testing with Azure Test Plans
- Manage build artifacts and packages
- Integrate with GitHub, Jira, or external tools

## Training Methodology:

- Interactive lectures & live demos
- Hands-on labs using Azure DevOps Portal
- Group sprints & backlog simulations
- Scenario-based problem solving
- Retrospective & reflection activities

## Course Toolbox:

- Azure DevOps Project Portal
- Azure Repos & Branching Strategy Guide
- Sprint Planning & Agile Metrics Templates
- CI/CD Pipeline Sample YAML files
- Testing Strategy Checklists
- Integration Toolkit: GitHub, Slack, Jira plugins

## Course Agenda:

### Day 1: Foundations of Agile with Azure DevOps

- **Topic 1:** Introduction to Agile Methodologies Scrum, Kanban, SAFe
- **Topic 2:** Agile Roles and Ceremonies in Software Projects
- **Topic 3:** Overview of Azure DevOps Capabilities
- **Topic 4:** Setting Up a New Agile Project in Azure DevOps
- **Topic 5:** Navigating Azure Boards and Teams Configuration
- **Topic 6:** Planning Sprints and Creating Backlogs
- **Reflection & Review:** Agile foundations and tool familiarization



## Day 2: Backlog Management and Collaboration

- **Topic 1:** Recap and Daily Standup Simulation
- **Topic 2:** Writing and Refining User Stories & Acceptance Criteria
- **Topic 3:** Estimating with Story Points and Velocity Tracking
- **Topic 4:** Managing Epics, Features, and Tasks in Azure Boards
- **Topic 5:** Setting Work-In-Progress Limits and Kanban Boards
- **Topic 6:** Connecting Azure Boards with GitHub Issues or Jira
- **Reflection & Review:** From planning to execution alignment

## Day 3: Version Control and Azure Repos

- **Topic 1:** Git Essentials and Branching Strategy
- **Topic 2:** Creating and Managing Azure Repos
- **Topic 3:** Pull Requests, Code Reviews, and Branch Policies
- **Topic 4:** Merging, Conflict Resolution, and History Tracking
- **Topic 5:** Integrating Azure Repos with External Git Repositories
- **Topic 6:** Secure Code Practices and Repo Permissions
- **Reflection & Review:** Managing source code the agile way

## Day 4: CI/CD Pipelines in Azure DevOps

- **Topic 1:** What is CI/CD and Why It Matters in Agile
- **Topic 2:** Designing Your First Build Pipeline with YAML
- **Topic 3:** Creating Release Pipelines for Multi-Stage Deployments
- **Topic 4:** Deployment to Azure App Services, Containers, and AKS
- **Topic 5:** Pipeline Triggers, Approvals, and Environment Variables
- **Topic 6:** Monitoring, Debugging, and Logging Build Failures
- **Reflection & Review:** Delivering working software continuously

## Day 5: Testing, Artifacts, and Agile Metrics

- **Topic 1:** Agile Testing Principles & Test-Driven Development
- **Topic 2:** Implementing Azure Test Plans and Test Suites
- **Topic 3:** Automated Tests Integration into Pipelines
- **Topic 4:** Managing Artifacts and Package Feeds
- **Topic 5:** Agile KPIs: Lead Time, Cycle Time, Deployment Frequency
- **Topic 6:** Retrospectives and Continuous Improvement in Azure
- **Reflection & Review:** Final group presentation + wrap-up quiz

## FAQ



## **What specific qualifications or prerequisites are needed for participants before enrolling in the course?**

Participants should have basic knowledge of software development, version control Git, and Agile principles. Familiarity with Azure or any DevOps platform is a plus but not mandatory.

## **How long is each day's session, and is there a total number of hours required for the entire course?**

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

## **What is the difference between Azure DevOps and GitHub Actions for Agile teams?**

Azure DevOps offers an integrated suite for Agile planning, CI/CD, testing, and artifacts all in one platform. GitHub Actions is focused primarily on automation. Azure DevOps is more suited for enterprise Agile teams needing structured project management.

## **How This Course is Different from Other Agile DevOps Courses:**

Unlike generic Agile or Azure DevOps tutorials, this course is fully use-case driven, offering participants the practical know-how to run Agile projects end-to-end using Microsoft's cloud-native tools. By incorporating backlog grooming, sprint execution, GitOps, and CI/CD automation into one workflow, participants experience how real Agile teams operate in fast-paced development environments. Hands-on exercises, sprint simulations, YAML pipeline coding, and test plan creation all ensure practical proficiency — not just theory.



# Training Course Categories

**Agile PM and Project Management Training Courses**

**Certified Courses By International Bodies**

**Communication and Public Relations Training Courses**

**Data Analytics Training and Data Science Courses**

**Environment & Sustainability Training Courses**

**Finance and Accounting Training Courses**

**Governance, Risk and Compliance Training Courses**

**Human Resources Training and Development Courses**

**IT Security Training & IT Training Courses**

**Leadership and Management Training Courses**

**Legal Training, Procurement and Contracting Courses**

**Maintenance Training and Engineering Training Courses**

**Marketing, Customer Relations, and Sales Courses**

**Occupational Health, Safety and Security Training Courses**

**Personal & Self-Development Training Courses**

**Quality and Operations Management Training Courses**

**Secretarial and Administration Training Courses**



## Training Cities

|                                 |                                 |                                     |
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