

# DevOps 200.5: DevOps Testing Syllabus

## Module 0: Start Here

- Welcome to the course!
- Course Overview
- Pre-Course Survey

## Module 1: Testing Overview

- Introduction
- Types of Tests
- Value of Automated Testing in DevOps
- Test-Driven Development and its Benefits
- Assessments
- Supplemental Learning

## Module 2: Unit Tests

- Introduction
- What is Unit Testing
- Elements of Unit Test
- Techniques for Advanced Unit Testing
- Create good unit tests using Visual Studio
- Practical Exercises
- Assessments
- Supplemental Learning

## Module 3: Integration Testing

- Introduction
- Testing Overview
- Integration Test in a standard development environment
- Assessments

## Module 4: Web Performance Tests and Load Tests

- Introduction
- Performance Testing
- Create Web Performance Test Scripts

- Run Load Tests
- Analyze Performance Test Results
- Practical Exercises
- Assessments
- Supplemental Learning

## Module 5: Functional Testing – Acceptance, UI, and Exploratory Tests

- Introduction
- Introduction to Functional Testing
- Manual Acceptance Testing
- Automated UI testing
- Exploratory testing with Microsoft Test Manager
- Practical Exercises
- Assessments
- Supplemental Learning

## Module 6: Final Exam

- Final Exam
- Post-Course Survey