

# SC-5002: Secure Azure services and workloads with Microsoft Defender for Cloud regulatory compliance controls

**Course Duration: 8 Hours**

**Course code: SC-5002**

## 1. Course Overview

The SC-5002 course is designed to provide learners with an in-depth understanding of how to secure Azure services and workloads using Microsoft Defender for Cloud. This course emphasizes implementing regulatory compliance controls to protect cloud resources, ensuring alignment with security best practices, and reducing risks across hybrid and multicloud environments. Participants will gain hands-on experience in applying Defender for Cloud tools to strengthen organizational security posture and compliance.

## 2. What You'll Learn?

By the end of this course, you will be able to:

- Understand the role of Microsoft Defender for Cloud in securing Azure workloads.
- Implement and manage regulatory compliance controls in Azure environments.
- Configure policies to align with organizational and regulatory requirements.
- Monitor, assess, and improve the security posture of Azure resources.
- Respond to security alerts and remediate threats using Defender for Cloud capabilities.
- Integrate compliance reporting and insights into organizational workflows.

## 3. Target Audience

This course is intended for:

- Security engineers responsible for managing security in cloud environments.

- Azure administrators and architects implementing compliance and governance.
- IT professionals working in security, compliance, or governance roles.
- Anyone preparing for Microsoft security certifications focusing on Defender for Cloud.

## 4. Pre-Requisites

Before attending this course, participants should have:

- A basic understanding of Microsoft Azure services and workloads.
- Knowledge of cloud security concepts and compliance standards.
- Familiarity with Azure governance, risk, and compliance (GRC) fundamentals is recommended but not mandatory.

## 5. Course Content

### **Module 1: Introduction to Microsoft Defender for Cloud**

- Overview of Defender for Cloud
- Securing workloads across Azure, hybrid, and multicloud environments

### **Module 2: Regulatory Compliance in Azure**

- Understanding compliance frameworks
- Mapping regulatory standards to Azure controls

### **Module 3: Implementing Security Policies and Compliance Controls**

- Creating and managing compliance policies
- Automating compliance enforcement

### **Module 4: Monitoring and Improving Security Posture**

- Assessing compliance with Defender for Cloud

- Using recommendations to improve posture

### **Module 5: Threat Protection and Remediation**

- Detecting and responding to security alerts
- Remediating compliance and security issues

### **Module 6: Reporting and Integrating Compliance Insights**

- Compliance dashboard and reporting
- Integrating compliance insights into workflows

