APPLIED TECHNOLOGY ACADEMY

800.674.3550
Info@AppliedTechAc.com
AppliedTechnologyAcademy.com

Microsoft Implement End-to-End Security Controls for Cloud and AI Workloads (SC-500) Training

Microsoft Authorized Training · Applied Technology Academy

SC-500 prepares security engineers to protect systems and data across cloud and hybrid environments — spanning identity, network, application, data and compute, and extending those controls to the platforms, data and infrastructure behind AI workloads. It is the successor to AZ-500 (Azure Security Technologies), which Microsoft retires on 31 August 2026.

LEVEL	DURATION	ROLE	EXPERIENCE	EXAM
Intermediate	**4 Days**	**Security Engineer**	**Azure/hybrid administration; Microsoft Entra ID**	**SC-500 (120 minutes)**

Course Overview

This course maps to Microsoft Certified: Cloud and AI Security Engineer Associate. You will secure access to resources with Microsoft Entra ID and Azure Key Vault, enforce security and regulatory compliance, secure storage, databases, networking and compute, secure AI solutions, and manage and monitor security posture with Microsoft Defender for Cloud, Microsoft Sentinel and Microsoft Security Copilot.

Course Outline

- **Module 1: Secure access to resources by using Microsoft Entra**
- **Module 2: Secure Azure Key Vault with defense in depth for cloud and AI workloads**
- **Module 3: Enforce security governance and regulatory compliance**
- **Module 4: Implement security for Azure Storage**
- **Module 5: Implement security for Azure SQL databases**
- **Module 6: Implement network security controls in Azure**
- **Module 7: Implement security for AI**
- **Module 8: Implement security for servers and virtual machines**
- **Module 9: Secure Azure application platform services**
- **Module 10: Manage security posture by using Microsoft Defender for Cloud**
- **Module 11: Implement activity and event collection in Microsoft Sentinel**
- **Module 12: Deploy and operate Microsoft Security Copilot**

Intended Audience

Security engineers who protect organizational systems and data across cloud and hybrid environments. The role spans identity, network, application, data and compute security, and includes securing the platforms, data, identities and infrastructure used by AI workloads.

Prerequisites

Microsoft publishes no formal prerequisites for this course. Practical experience administering Microsoft Azure and hybrid environments — compute, network and storage — is expected, along with strong familiarity with Microsoft Entra ID and familiarity with Microsoft 365 administration.

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.