

Cloud and AI Security Engineer Associate (Exam SC-500)

COURSE CONTENT

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Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multosoftsystems.com



www.multosoftsystems.com

About Multisoft

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About Course

Cloud and AI Security Engineer Associate (Exam SC-500) Training is designed to help professionals secure cloud environments and AI-powered applications using Microsoft's security ecosystem. The course covers identity and access management, Microsoft Defender, Microsoft Entra ID, Microsoft Purview, AI workload security, governance, compliance, threat detection, and security operations. Participants will develop practical skills for protecting cloud infrastructure, AI services, and enterprise data while preparing for the Cloud and AI Security Engineer Associate (Exam SC-500) certification.

Module 1: Cloud and AI Security Fundamentals

- ✓ Overview of Cloud Security
- ✓ AI Security Fundamentals
- ✓ SC-500 Certification Overview
- ✓ Shared Responsibility Model
- ✓ Zero Trust Security Model
- ✓ Modern Threat Landscape

Module 2: Identity and Access Protection

- ✓ Microsoft Entra ID
- ✓ Identity Protection
- ✓ Authentication Methods
- ✓ Multi-Factor Authentication (MFA)
- ✓ Conditional Access Policies
- ✓ Privileged Identity Management (PIM)
- ✓ Passwordless Authentication
- ✓ Identity Governance

Module 3: Securing Cloud Infrastructure

- ✓ Azure Resource Security
- ✓ Azure Virtual Network Security
- ✓ Network Security Groups
- ✓ Azure Firewall

- ✓ Azure Key Vault
- ✓ Storage Security
- ✓ Compute Security
- ✓ Secure Cloud Architecture

Module 4: Microsoft Defender Security Platform

- ✓ Microsoft Defender XDR
- ✓ Defender for Cloud
- ✓ Defender for Endpoint
- ✓ Defender for Identity
- ✓ Defender for Office 365
- ✓ Defender for Cloud Apps
- ✓ Threat Protection
- ✓ Security Recommendations

Module 5: AI Workload Security

- ✓ Securing Azure AI Services
- ✓ Azure OpenAI Security
- ✓ AI Model Protection
- ✓ Prompt Injection Risks
- ✓ Data Protection for AI
- ✓ AI Threat Detection

- ✓ Secure AI Application Design
- ✓ Responsible AI Security

Module 6: Data Protection and Compliance

- ✓ Microsoft Purview
- ✓ Information Protection
- ✓ Sensitivity Labels
- ✓ Data Loss Prevention (DLP)
- ✓ Data Classification
- ✓ Encryption
- ✓ Compliance Manager
- ✓ Regulatory Compliance

Module 7: Security Monitoring and Threat Detection

- ✓ Microsoft Sentinel
- ✓ Security Monitoring
- ✓ Log Analytics
- ✓ Threat Intelligence
- ✓ Incident Detection
- ✓ Alert Management
- ✓ Security Dashboards
- ✓ Investigation Workflows

Module 8: Incident Response and Security Operations

- ✓ Incident Response Lifecycle
- ✓ Security Automation
- ✓ Playbooks
- ✓ Threat Hunting
- ✓ Forensics Fundamentals
- ✓ Vulnerability Assessment
- ✓ Risk Mitigation
- ✓ Recovery Strategies

Module 9: Governance, Risk, and Compliance

- ✓ Governance Frameworks
- ✓ Risk Assessment
- ✓ Security Policies
- ✓ Compliance Controls
- ✓ Audit Management
- ✓ Security Baselines
- ✓ AI Governance
- ✓ Continuous Compliance

Module 10: Secure Cloud and AI Deployment

- ✓ Secure DevSecOps

- ✓ Infrastructure as Code Security
- ✓ CI/CD Security
- ✓ API Security
- ✓ Secret Management
- ✓ Secure Deployment Practices
- ✓ Security Validation
- ✓ Production Readiness

Module 11: Enterprise Security Implementation

- ✓ End-to-End Security Architecture
- ✓ AI Security Case Studies
- ✓ Cloud Security Implementation
- ✓ Zero Trust Implementation
- ✓ Enterprise Governance
- ✓ Security Best Practices
- ✓ SC-500 Exam Preparation
- ✓ Real-World Security Project