

SC-900T00A Microsoft Security, Compliance, & Identity Fundamentals



Course description

This course introduces students to Microsoft security, compliance, and identity (SCI) concepts, solutions, and capabilities. Through this course, students will be able to describe Microsoft SCI solutions and capabilities, across Azure and Microsoft 365, so that they can apply those learnings in defining end-to-end solutions to real world scenarios.

Audience

The audience for this course is anyone who is just beginning to learn about Microsoft SCI solutions and capabilities across Microsoft 365 and Azure.

Since this course covers SCI content for both Azure and Microsoft 365, it is recommended that students have some basic familiarity with Azure and Microsoft 365, along with a general understanding of cloud computing and networking. Free learning content is available on Microsoft Learn and can help students familiarize themselves with these areas, including: Introduction to Azure fundamentals (includes What is cloud computing?), What is Microsoft 365?, and Fundamentals of computer networking.

There are no Microsoft certifications required as prerequisites for this course.

The course materials available from Microsoft Learn for Educators are optimized for higher education instructors or instructors that teach in similar education settings (for example, early college programs in secondary schools, workforce training programs, and adult education, or continuing education programs). The Microsoft Official Course and certification exam will be localized into Spanish, French, German, Japanese, Korean, and Simplified Chinese.

Learning objectives

After completing this course, students will be able to:

- Describe the concepts of security, compliance, and identity.
- Describe the capabilities of Microsoft Identity and Access Management Solutions.
- Describe the capabilities of Microsoft Security Solutions.
- Describe the capabilities of Microsoft Compliance Solutions.

See the full certification skills outline for further details.

Exam Relationship

This course is directly mapped to and supports learning for the SC-900: Microsoft Security, Compliance, and Identity Fundamentals certification exam. The table below outlines the relative weight percentages for each area of the exam. The higher the percentage, the more questions students are likely to see in that area.

STUDY AREAS	WEIGHTS
Describe the concepts of security, compliance, and identity	5-10%
Describe the capabilities of Microsoft Identity and Access Management Solutions	25-30%
Describe the capabilities of Microsoft Security Solutions.	30-35%
Describe the capabilities of Microsoft Compliance Solutions	25-30%

See the full certification skills outline for further details.

Course Materials

In addition to this course datasheet the following course materials are available through Microsoft Learn for Educators:

- **Microsoft Official Course:** Four stand-alone modules that can each be delivered in 33-146 minutes of class time (refer to the table in the appendix for a detailed breakdown of timings by module). The modules are sub-divided into shorter lessons and facilitated through PowerPoint slide decks that include lecture topics, instructor notes, and knowledge check questions. Some lessons may also include interactive click-through guides and/or videos. Although each module consists of content is independent of content in other modules, it is highly recommended that the modules be delivered in the order in which they are listed in the MOC as the learning from one module can build on learning from a previous module. For example, you want to be able to explain the concept of Zero-Trust in the concepts module before you can show how content in the identity module ties back to that concept.
- **Educator Teaching Guide:** Guide for educators who plan to implement the course in academic settings. It includes detailed explanations of the course materials, technical requirements, and setup. It also includes recommended resources for preparing for the certification exam, accommodating students, and remote teaching.
- Online Training: Self-paced online learning content on Microsoft Learn that aligns directly to Exam SC-900: Microsoft Security, Compliance, and Identity Fundamentals and to the Microsoft Official Course. (MOC). The learning content on Microsoft Learn consists of four learning paths (these learning paths are equivalent to the modules in the MOC) and each learning path consists of modules (these modules are the equivalent to lessons in the MOC) that include explanations of technical concepts and knowledge checks. Some modules may also include interactive click-through guides and/or videos. As with the MOC, it is highly recommended that the learning paths on Microsoft Learn be consumed in order, as listed in the titles, shown below.

The Microsoft Security, Compliance, and Identity Fundamentals content on Microsoft Learn consists of the following four Learning Paths:

- SC-900 part 1: Describe the concepts of security, compliance, and identity.
- SC-900 part 2: Describe the capabilities of Microsoft Identity and access management solutions.
- SC-900 part 3: Describe the capabilities of Microsoft security solutions.
- SC-900 part 4: Describe the capabilities of Microsoft compliance solutions.
- **Virtual Educator Prep Session:** Virtual Educator Prep Sessions (VEPS) will help you deliver Microsoft curriculum and use our training materials in your classes. Learn tips and tricks from Microsoft technical trainers about how to prepare for your first teaching session, which labs to use and when, how to introduce topics, and discover other resources and materials that may help your students to be more successful on their exams.
- Labs and demos: Lab instructions and demo scripts are available on GitHub by going to MicrosoftLearning/SC-900-Microsoft-Security-Compliance-and-Identity-Fundamentals and selecting the Instructions folder. A listing of the labs and demos is provided in appendix C of this document. A few important points to note regarding demos and labs:

COURSE DATASHEET

- Use of the demo scripts and labs assume access to the preconfigured WWL M365 Enterprise 2019 SPE_E5 tenant, available through an authorized lab hoster (ALH) and the use of an Azure subscription using an Azure pass. Demo scripts and lab instructions may be run on a user's own Microsoft 365 tenant and Azure subscription, but are not guaranteed, as some features may not be enabled with a user's personal subscription.
- The demo scripts are intended to be used by instructors to demonstrate functionality, in a live environment, during course delivery. This is an alternative to the use of interactive click-through guides and/or video walkthroughs.
- The labs are available as a supplement to the course content. The use of labs by students assumes the
 availability of the environment described above. Some labs may work with trial or free subscriptions.
 Instructors should review labs for suitability with free/trial subscriptions prior to recommending them to
 students.
- Labs will vary in duration (most labs can vary from 30-60 minutes to complete), so instructors should take
 this into account as they determine how best to incorporate the hands-on experience into the course. The
 labs are designed as stand-alone labs (there is no dependency between labs).
- The user interfaces (UI)for Microsoft 365 and Azure are continually being updated. As these changes happen every effort is made to ensure demo and lab steps are updated to reflect changes, but it is not uncommon to see variances in the UI described in the labs/demos and the actual tenant.

Flexible Format

The course is designed to enable higher education instructors to deliver a complete module from the Microsoft Official Course during 1-2 class meetings and then direct students to complete the aligned online learning on Microsoft Learn. This provides the instructor with flexibility to emphasize certain concepts or topics, supplement the content, or integrate the course with other curricula while ensuring that the student can still get access to the content, including interactive click-through guides, video walk-throughs, informational videos and descriptive images that instructors may not cover in the classroom delivery.

Recommended Instructor Preparation

Instructors are strongly encouraged to review the SC-900 Parts 1-4 learning paths on Microsoft Learn and complete Exam SC-900: Microsoft Security, Compliance, and Identity Fundamentals prior to teaching the course to verify their understanding of the course content and gain insight into how to support students preparing for the exam. Instructors are also encouraged to prepare to support students who are developing their understanding of the basic concepts and skills listed in the Audience section of this document.



Appendix A

The following table provides a snapshot of the content included in the instructor-led course modules, detailed timing, and a link to the aligned segments of the Online Training on Microsoft Learn:

Module and description	Lesson	Aligned Online Training on Microsoft Learn
Module 0: Course Introduction 6 minutes		
Module 1: Describe the concepts of security, compliance, and identity. 41 minutes (text-based content) 4 minutes (videos/interactives)	Lesson 1: Describe security concepts and methodologies. Lesson 2: Describe identity concepts.	SC-900 part 1: Describe the concepts of security, compliance, and identity (Learning Path) 45 minutes
Module 2: Describe the concepts and capabilities of Microsoft identity and access management solutions. 67 minutes (text-based content) 21 minutes (videos/interactives)	Lesson 1: Describe the basic services and identity types of Azure AD. Lesson 2: Describe the authentication capabilities of Azure AD. Lesson 3: Describe the access management capabilities of Azure AD. Lesson 4: Describe the identity protection and governance capabilities of Azure AD.	SC-900 part 2: Describe the capabilities of Microsoft Identity and access management solutions (Learning Path) 1 hour 28 minutes
Module 3: Describe the capabilities of Microsoft security solutions. 97 minutes (text-based content) 37 minutes (videos/interactives	Lesson 1: Describe the basic security capabilities in Azure. Lesson 2: Describe the security management capabilities of Azure. Lesson 3: Describe the security capabilities of Azure Sentinel. Lesson 4: Describe the threat protection capabilities of Microsoft 365. Lesson 5: Describe the security management capabilities of Microsoft 365. Lesson 6: Describe endpoint security with Microsoft Intune.	SC-900 part 3: Describe the capabilities of Microsoft security solutions (Learning Path) 2 hour 14 minutes

Module 4: Describe the capabilities of Microsoft compliance.

110 minutes (text-based content)36 minutes (videos/interactives)

Lesson 1: Describe the compliance management capabilities in Microsoft.

Lesson 2: Describe the information protection and governance capabilities of Microsoft 365.

Lesson 3: Describe the insider risk capabilities in Microsoft 365.

Lesson 4: Describe the eDiscovery and audit capabilities of Microsoft 365.

Lesson 5: Describe the resource governance capabilities in Azure.

SC-900 part 4: Describe the capabilities of Microsoft compliance solutions

(Learning Path)

2 hour 26 minutes

^{*}Note that the Module Timings are for delivery in a higher education setting without supplemental instruction about related concepts. Instructors who want to deliver in other settings or provide supplemental instruction in foundational or related concepts should plan for longer implementation.

Appendix B

Extended Outline

This outline provides detailed information about the content included in the instructor-led course modules, including topic areas, interactive guides and videos. The table also provides the aligned segments from the Online Training on Microsoft Learn.

Module and description	Lesson/Topics	Interactive Guides and Videos	Aligned Online Training on Microsoft Learn
Module 0: Course Introduction 6 minutes			
Module 1: Describe the concepts of security, compliance, and identity. 28 minutes (text-based content) 4 minutes (videos/interactives)	Lesson 1: Describe security concepts and methodologies. • 01-Introduction • 02-Describe the Zero-Trust methodology • 03-Describe the shared responsibility model • 04-Describe defense in depth • 05-Describe common threats • 06-Describe encryption and hashing • 07-Describe the cloud adoption framework • 08-Knowledge check • 09-Summary and resources Lesson 2: Describe identity concepts. • 01-Introduction • 02-Common identity attacks • 03-Identity as the primary security perimeter • 04-Modern authentication and the role of the identity	Module 1, Lesson 1, Topic 02 - Zero Trust - Informational video (2min) Module 1, Lesson 1, Topic 07 - Cloud adoption framework video Information video (1.8 min) Module 1, Lesson 2, Topic 4 - Azure AD Authentication Fundamentals – Informational video (4.5 min)	SC-900 part 1: Describe the concepts of security, compliance, and identity (Learning Path) 33 minutes
Madula 2	provider • 05-The concept of Federated Services • 06-The concept of directory services and Active Directory • 07-Knowledge check • 08-Summary and resources		SC 000 and 3 Describe
Module 2: Describe the concepts and capabilities of Microsoft identity and access management solutions.	Lesson 1: Describe the basic services and identity types of Azure AD. O1-Introduction O2-Describe Azure Active Directory O3-Describe the Azure AD editions	Module 2, Lesson 1, Topic 04 - Create a New User in Azure Active Directory - Interactive click-through guide (~2 min)	SC-900 part 2: Describe the capabilities of Microsoft Identity and access management solutions (Learning Path)

67 minutes (text-based content)

21 minutes (videos/interactives)

- 04-Describe the Azure AD identity types
- 05-Describe the types of external identities
- 06-Describe the concept of hybrid identities
- 07-Knowledge check
- 08-Summary and resources

Lesson 2: Describe the authentication capabilities of Azure AD.

- 01-Introduction
- 02-Describe the different authentication methods of Azure AD
- 03-Describe Multi-factor authentication in Azure AD
- 04-Describe Windows Hello
- 05-Describe self-service password reset in Azure AD
- 06-Describe password protection & management capabilities of Azure AD
- 07-Knowledge check
- 08-Summary and resources

Lesson 3: Describe the access management capabilities of Azure AD.

- 01-Introduction
- 02-Describe conditional access in Azure AD
- 03-Describe Azure AD roles
- 04-Knowledge check
- 05-Summary and resources

Module 2, Lesson 2, Topic 02 - <u>The new sign-in</u> <u>standard: Passwordless</u> <u>authentication</u> -Informational video (1.88 min) 1 hour 28 minutes

Module 2, Lesson 2, Topic 02 - <u>Enable SSPR in Azure</u> <u>Active Directory</u> – Interactive click-through quide (~3min)

Module 2, Lesson 3, Topic 02
- Azure AD Conditional
Access -Informational video
(1.50min)

Module 2, Lesson 3, Topic 02
- <u>Create a Conditional</u>
<u>Access Policy</u> - Interactive click-through guide (~3min)

Lesson 4: Describe the identity protection and governance capabilities of Azure AD.

- 01-Introduction
- 02-Describe identity governance in Azure AD
- 03-Describe entitlement management, access reviews, and terms of use
- 04-Describe the capabilities of Privileged identity
 Management
- 05-Describe Azure Identity Protection
- 06-Knowledge check
- 07-Summary and resources

Module 2, Lesson 4, Topic 03
- AD entitlement
management - Informational
video (3 min)

Module 2, Lesson 4, Topic 04
- <u>Privileged identity</u>
<u>Management</u> Informational video (5.50 min)

Module 3: Describe the capabilities of Microsoft security solutions. 97 minutes (text-based content) 37 minutes (videos/interactives	Lesson 1: Describe the basic security capabilities in Azure. • 01-Introduction. • 02-Describe Azure Network Security groups • 03-Describe Azure DDoS protection • 04-Describe what is Azure Firewall • 05-Describe what is Web Application Firewall • 07-Describe ways Azure encrypts data • 08-Knowledge check • 09-Summary and resources Lesson 2: Describe the security management capabilities of Azure. • 01-Introduction • 02-Describe Cloud security posture management • 03-Describe he Azure Security center • 04-Describe Azure Defender • 04-Describe security baselines for Azure • 07-Describe the different Azure pricing tiers • 08-Knowledge check • 09-Summary and resources	Module 3 Lesson 2 Topic 04 - Use Azure secure score to improve your security posture - Interactive click through guide (~3min)	SC-900 part 3: Describe the capabilities of Microsoft security solutions (Learning Path) 2 hour 14 minutes
	Lesson 3: Describe the security capabilities of Azure Sentinel. O1-Introduction O2-Define the concepts of SIEM, SOAR, XDR O3-Describe integrated threat protection with Sentinel O4-Understand Sentinel costs O5-Knowledge check O6-Summary and resources	Module 3, Lesson 3, Topic 03 - <u>Azure Sentinel</u> – Walk-through video (9.50 min)	
	Lesson 4: Describe the threat protection capabilities of Microsoft 365. • 01-Introduction • 02-Describe Microsoft 365 Defender services	Module 3, Lesson 4, Topic 02 - M365 Defender Overview - Informational video (3.50 min)	

•	03-Describe Microsoft		
	Defender for Identity		

- 04-Describe Microsoft Defender for Office 365
- 05-Describe Microsoft Defender for Endpoint
- 06-Describe Microsoft Cloud App Security
- 07-Knowledge check
- 08-Summary and resources

Lesson 5: Describe the security management capabilities of Microsoft 365.

- 01-Introduction
- 02-Describe the Microsoft 365 Defender portal
- 03-Describe how to use Microsoft Secure Score
- 04-Explore Microsoft security reports and dashboards
- 05-Describe Microsoft incidents and incident management capabilities
- 06-Knowledge check
- 07-Summary and resources

Lesson 6: Describe endpoint security with Microsoft Intune.

- 01-Introduction
- 02-Describe what is Intune
- 03-Describe endpoint security with Intune
- 04-Knowledge check
- 05-Summary and resources

Module 3, Lesson 4, Topic 06
- Describe threat protection
with Microsoft 365 Interactive click-through
guide focused on MCAS
(~5min)

Module 3, Lesson 5, Topic 05
- <u>M365Defender-Incident</u> Walkthrough video (4.20 min)

Module 3, Lesson 6, Topic 03 - Explore endpoint security - Video walkthrough (8.3 min)

Module 4: Describe the capabilities of Microsoft compliance.

111 minutes (text-based content)

37 minutes (videos/interactives) **Lesson 1:** Describe the compliance management capabilities in Microsoft.

- 01-Introduction
- 02-Describe common compliance needs
- 03-Describe the offerings of the Service Trust Portal
- 04-Descirbe Microsoft privacy principles
- 05-Describe the Compliance
- 06-Describe Compliance Manager
- 07-Describe compliance score
- 08-Knowledge check
- 09-Summary and resources

Module 4, Lesson 1, Topic 03 - Explore the Service Trust Portal – Interactive clickthrough guide (~3 min)

Module 4, Lesson 1, Topic 03 - Explore Compliance Center

- Interactive click-through quide (~3min)

Module 4, Lesson 1, Topic 04 Compliance Manager -Informational video (1.50min)

Module 4, Lesson 1, Topic 05

- Explore Compliance Score
- Interactive clickthrough quide (~3min)

SC-900 part 4: Describe the capabilities of Microsoft compliance solutions

(Learning Path)

2 hour 28 minutes

Lesson 2: Describe the information protection and governance capabilities of Microsoft 365.

- 01-Introduction
- 02-know your data, protect your data, and govern your
- 03-Describe data classification capabilities of compliance
- 04-Describe sensitivity labels
- 05-Describe Data Loss Prevention
- 06-Describe Retention Polices and Retention Labels
- 07-Describe Records Management
- 08-Knowledge check
- 09-Summary and resources

Lesson 3: Describe the insider risk capabilities in Microsoft 365.

- 01-Introduction
- 02-Describe the Insider Risk Management solution
- 03-Describe communication compliance
- 04-Describe information barrier

Module 4, Lesson 2, Topic 03 - Data Classification in the M365 Compliance Center -Video walkthrough (4.35min)

Module 4, Lesson 3, Topic 03 - Detect Workplace Harassment & Respond -**Communication Compliance** in Microsoft 365 - Video walkthrough (7min)

05 - Privileged Access

05-Describe privileged access	Management - Video	
management	walkthrough (5.70 min)	
Lesson 4: Describe the eDiscovery and audit capabilities of Microsoft 365.		
 01-Introduction 02-Describe the purpose of eDiscovery 03-Describe the capabilities of the content search tool 04-Describe the core eDiscovery workflow 	Module 4, Lesson 4, Topic 02 - <u>Use eDiscovery to help</u> with investigations - Interactive click-through guide (~3min)	
 05-Describe the advanced eDiscovery workflow 06-Describe the core audit capabilities of M365 07-Describe Advanced Auditing 08-Knowledge check 	Module 4, Lesson 4, Topic 06 - Search the audit log- Interactive click-through guide (~3min)	
09-Summary and resources Lesson 5: Describe the resource		
governance capabilities in Azure. • 01-Introduction • 02-Describe the use of Azure Resource locks • 03-Describe what is Azure Blueprints	Module 4, Lesson 5, Topic 02 - <u>Use Azure resource lock to lock resources</u> Interactive click-through guide (~3min)	

04-Describe Azure policy 05-Describe the cloud adoption framework 06-Knowledge check 07-Summary and resources

Appendix C

Demos and labs

The tables below provide a listing of available demos and labs. Please refer to the section on labs and demos section of this document for important information related to this content.

SC-900 Demo List		
Module/Lesson/Topic	Demo	GitHub Demo File Name
Setup	Pre-demo setup	DEMO_pre_demo_setup.m d
Module 2, Lesson 1, Topic 3: Describe the Azure AD identity types	Azure Active Directory user settings	DEMO_explore_azure_ad.m d
Module 2, Lesson 2, Topic 5: Describe self-service password reset in Azure AD	Azure Active Directory self- service password reset (SSPR)	DEMO_explore_azure_ad_ss pr.md
Module 2, Lesson 3, Topic 2: Describe conditional access in Azure AD	Azure Active Directory Conditional Access	DEMO_explore_azure_cond _access.md
Module 3, Lesson 1, Topic 2: Describe Azure Network Security groups	Azure Network Security Groups (NSGs)	DEMO_explore_nsg.md
Module 3, Lesson 2, Topic 3: Describe Azure Security Center	Azure Security Center	DEMO_explore_asc.md
Module 3 Lesson 3, Topic 3: Describe integrated threat protection with Sentinel	Azure Sentinel	DEMO_explore_sentinel.md
Module 3, Lesson 4, Topic 6: Describe Microsoft Cloud App Security	Microsoft Cloud App Security (MCAS)	DEMO_explore_mcas.md
Module 3, Lesson 5, Topic 2: Describe the Microsoft 365 Security Center	The Microsoft 365 Defender portal	DEMO_explore_m365_defen der_portal.md
Module 3, Lesson 6, Topic 3: Describe endpoint security with Intune	Microsoft Intune	DEMO_explore_intune.md
Module 4, Lesson 1, Topic 3: Explore the Service Trust Portal	Service Trust Portal	DEMO_explore_service_trus t_portal.md
Module 4, Lesson 1, Topic 5: Describe the Compliance Center	Microsoft 365 Compliance Center	DEMO_explore_compliance .mgr.md
Module 4, Lesson 2, Topic 4: Describe sensitivity labels	Sensitivity labels in Microsoft 365	DEMO_explore_sensitivity_l abels.md
Module 4, Lesson 5, Topic 4: Describe Azure Policy	Azure policy	DEMO_explore_azure_polic y.md

SC-900 Lab List		
Module/Lesson/Topic	Lab	GitHub Demo File Name
Setup	Setup	LAB_00_setup.md
Module 2, Lesson 1, Topic 3: Describe the	Explore Azure Active	LAB_01_explore_azure_ad.m
Azure AD identity types	Directory	d
Module 2, Lesson 2, Topic 5: Describe	Explore Azure AD	LAB_02_explore_azure_ad_s
self-service password reset in Azure AD	Authentication with self-	spr.md
	service password reset	
Module 2, Lesson 3, Topic 2: Describe	Explore access	LAB_03_explore_azure_cond
conditional access in Azure AD	management in Azure AD	_access.md
	with Conditional	
Module 2, Lesson 4, Topic 4: Describe the	Explore identity governance	LAB_04_explore_pim.md
capabilities of Privileged Identity	in Azure AD with Privileged	
Management	Identity management	
Module 3, Lesson 1, Topic 2: Describe	Explore Azure Network	LAB_05_explore_nsg.md
Azure Network Security groups	Security Groups (NSGs)	142.06
Module 3, Lesson 2, Topic 3: Describe	Explore Azure Security	LAB_06_explore_asc.md
Azure Security Center	Center	
Module 3, Lesson 3, Topic 3: Describe	Explore Azure Sentinel	LAB_07_explore_sentinel.md
integrated threat protection Sentinel	E I M' G GI	145.00
Module 3, Lesson 4, Topic 6: Describe	Explore Microsoft Cloud	LAB_08_explore_mcas.md
Microsoft Cloud App Security	App Security	LAR OO surlans mader data
Module 3, Lesson 5, Topic 2: Describe the	Explore the Microsoft 365	LAB_09_explore_m365_defe
Microsoft 365 Defender portal	Defender portal	nder_portal.md
Module 3, Lesson 6, Topic 3: Describe endpoint security with Intune	Explore Microsoft Intune	LAB_10_explore_intune.md
Module 4, Lesson 1, Topic 3: Explore the	Explore the Service Trust	LAB_11_explore_service_trus
Service Trust Portal	Portal	t_portal.md
Module 4, Lesson 1, Topic 5: Describe the	Explore the Microsoft 365	LAB_12_explore_compliance
Compliance Center	compliance center &	.mgr.md
compliance conten	Compliance Manager	9
Module 4, Lesson 2, Topic 4: Describe	Explore sensitivity labels in	LAB_13_explore_sensitivity_l
sensitivity labels	Microsoft 365	abels
Module 4, Lesson 3, Topic 2: Describe the	Explore Insider Risk	LAB_14_explore_insider_risk
Insider Risk Management solution	Management in Microsoft	_mgt.md
j	365	
Module 4, Lesson 4, Topic 5: Describe the	Explore the Core eDiscovery	LAB_15_explore_core_edisc
core eDiscovery workflow	workflow	overy.md
Module 4, Lesson 5, Topic 4: Describe	Explore Azure Policy	LAB_16_explore_azure_polic
Azure Policy	-	y.md