

SC-900T00A - Microsoft Azure Fundamentals



General overview

This educator teaching guide provides preparation and reference resources for instructors who plan to teach SC-900T00A: Microsoft Security, Compliance, and Identity Fundamentals in higher education or similar education settings (for example, early college programs in secondary schools or workforce training, adult education, or continuing education programs).

This guide includes:

- Required preparation and resources to master the core concepts and terms,
- A high-level overview of course materials and course planning tools, and
- Technology requirements with recommendations for configuring your classroom demos.

Planning checklist for preparing to teach the course

Instructors should aim to complete the following planning checklist prior to teaching the course. Each checklist item is bookmarked to the corresponding detailed content section.

☐ Master core concepts and terms

- Review the list of skills measured for Exam SC-900: Microsoft Security, Compliance, and Identity Fundamentals.
- Develop your technical learning plan.

□ Know your course materials

- Read the Course Datasheet.
- Preview the presentations, videos, click-through guides in the Microsoft Official Course.
- Read this Educator Teaching Guide.
- Preview the **Online Training** on Microsoft Learn.
- Watch the Virtual Educator Prep Session (as available).

Lab and demo scripts (as available)

☐ Plan your course

- Plan your syllabus and calendar.
- Explore tools for enabling remote learning and delivering inclusive and accessible instruction.

Prepare technologies and tools

• Understand the minimum technical requirements for you, your students, and your classroom.

☐ Configure your classroom demos

- Set up your Microsoft Learn profile, Azure subscription, and Microsoft 365 trial subscription.
- Provide students with instructions on how to set up their own Microsoft Learn profile, Azure subscription, and Microsoft 365 trial subscription.
- Set up in-class demonstration and lab technologies.
- Review best practices for using Azure resources.

Master core concepts and terms

Overview

This section will introduce you to resources for learning the technical concepts and skills in this course. It will also provide guidance for developing a technical learning plan.

Review exam objective domains

This course is directly mapped to Exam SC-900: Microsoft Security, Compliance, and Identity Fundamentals. A great way to start your technical skilling journey is to review the skills measured in the exam and note the extent to which they cover familiar versus new technical concepts and skills.

Develop your technical learning plan

We strongly recommend that you complete the certification exam prior to teaching the course to verify your understanding of the course content and gain insight into how to support students preparing for the exam. We maintain a continually updated list of options for learning the skills measured in the Exam SC-900: Microsoft Security, Compliance, and Identity Fundamentals landing page. The list includes free online learning paths on the Microsoft Learn platform, instructor-led courses delivered online and in-person by our learning partners, and official practice tests. You can also find up-to-date information about options for registering to take the exam at an authorized testing center or via remote proctoring.

You may also find the following resources helpful as you prepare to teach the class:

- Microsoft Azure
 - Introduction to Azure solutions.
 - Learn how to create an Azure account
 - Learn how to use the Microsoft Azure portal
- Microsoft 365
 - What is Microsoft 365?
 - Compare Office 365 Education Plans.

Know your course materials

Overview

In addition to this Educator Teaching Guide, the table below will help you get to know your course materials. It includes the location and a brief description of each resource as well as recommended best practices.

All of the course materials are located in the Learning Download Center or on Microsoft Learn. In addition, labs and demo scripts are available on GitHub (MicrosoftLearning/SC-900-Microsoft-Security-Compliance-and-Identity-Fundamentals) We created a video to help illustrate the steps to access the materials and the content included in each. The Microsoft Learn for Educators page also includes step-by-step instructions to gain access to the course materials in the Materials Access section.

EDUCATOR TEACHING GUIDE RESOURCE INFORMATION Location: Learning Download Center **Course Datasheet** Description: A high-level summary of the course and its exam relationship **Best practices:** Read prior to teaching to get a general overview of the course and its intended audience. See Appendix A for a snapshot of the Microsoft Official Course, timings, technologies used during in-class demos and labs, and aligned online learning. See Appendix B for more detailed information about each segment of the Microsoft Official **Microsoft Official Location**: Learning Download Center Course **Description**: Stand-alone modules that can be delivered in 33 -148 minutes of class time. The modules are sub-divided into shorter lessons and facilitated through PowerPoint slide decks that include lecture topics, instructor notes, links to interactive click-through guides and videos (where applicable), and knowledge check questions. **Best practices:** Search for "Notes" in the help section of PowerPoint if you don't see the Instructor Notes. Use PowerPoint's embedded accessibility features to facilitate inclusive instruction. Consider accessibility standards when modifying slides or creating additional content. Location: Microsoft Learn **Online Training** Description: 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. Each module stands alone and includes explanations of technical concepts, interactive click-through guides and videos (as applicable), knowledge checks, and resource links. **Best practices:** Complete prior to teaching and taking the certification exam. Emphasize to students that activities, such as completing the interactive click-through guides, watching walk-through videos; and, where possible, obtaining and exploring Azure and Microsoft 365 trial subscriptions are particularly useful for solidifying understanding of exam concepts and transferring knowledge to real-world problems. On-demand Virtual **Location**: Learning Download Center (if available) **Educator Prep Description**: Recorded presentation that provides tips and best practices for delivering the course from Session (as available) an experienced instructor. Note: VEPS may be available after the initial launch of SC-900 in the Microsoft Learn for Educators program.

Best Practices:

Useful to view while planning course and revisit after first couple weeks.

Labs and demos scripts

Location: GitHub (MicrosoftLearning/SC-900-Microsoft-Security-Compliance-and-Identity-Fundamentals)

Description: Demo scripts are available for use by instructors, to demonstrate functionality in a live environment. Additionally, labs are available for students to obtain hands-on experience.

Note: Both 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 or free/trial subscriptions.

Best practices:

- Instructors should review and/or practice all demo scripts prior to use, especially if they will be done using a personal subscription.
- The use of labs by students assumes the availability of the environment described in the note 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.

Plan your course

Overview

This section is designed to help you plan your course and syllabus. It includes information on other resources from Microsoft that you can utilize to supplement the course materials described above, enable remote learning, and deliver inclusive and accessible instruction.

Design Your Syllabus

The course is designed to enable you to deliver a complete module from the Microsoft Official Course during one or two class meetings (number of classes will depend on the duration of each class) and then direct students to complete the aligned segments of the Online Training on Microsoft Learn. This allows you to easily modify the delivery format, supplement the content, or integrate the course with other curricula.

It is often helpful to provide real-world scenarios and business use cases to students when first introducing new technical concepts. The following resources give overviews of how organizations are embracing the Zero Trust methodology and implementing a Zero Trust strategy with Microsoft technologies:

- Bridgewater
- The Walsh Group

We recommend that you consider your students' prior experience with technology when determining how to design your course syllabus. The course assumes a general understanding of networking and cloud computing concepts, general IT knowledge, and a general understanding of Microsoft Azure and Microsoft 365.

Consider using the following resources if you determine you need to modify the recommended delivery format or supplement the content:

- Microsoft Learn for Students
- Microsoft Learn for Educators
- Microsoft Educator Center

Enable Remote Learning

Microsoft's Remote learning in education page includes resources, training, and how-to guides to help schools and educators deliver remote instruction. The Special education and accessibility resources for remote learning page also provides extensive resources for accommodating students in remote learning contexts.

Deliver Inclusive and Accessible Instruction

The diversity of learning needs demands that instructors provide inclusive, accessible learning environments that inspire confidence and encourage independence differently for each student.

Several resources are available to help create an inclusive learning environment:

- The Microsoft Educator Center course Creating a digitally inclusive learning community.
- Microsoft Style Guide Bias-free communication article.
- Microsoft's Inclusive Design methodology website.

Microsoft Office and the Microsoft Edge browser include embedded features that you can use to create a personalized and engaging learning experience for all your students. Use these resources to learn more:

- Make your PowerPoint presentations accessible
- Create accessible content
- Accommodate students' diverse needs:
 - Reading, writing, and math
 - Executive function
 - Speech, language, and communication
 - Hearing
 - Mobility
 - Vision
 - Neurodiversity
 - Multiply impaired and medically fragile
 - Mental health
- Support second language learners
- Support highly capable and twice exceptional students

Microsoft has a support resource for questions about the accessibility and product compliance of all Microsoft products, including the technologies used in the hands-on practice activities for this course. The support team can help resolve issues relating to a disability and the functionality of the products to be used with assistive technology, as well as find conformance documentation.

Prepare technologies and tools

Overview

This section provides the requirements needed for hardware, software, devices, and Azure and Microsoft 365 Services, for you, your students, and your classroom.

Technical requirements

Educator hardware and software requirements:

- PC or laptop
- Access to the internet
- Modern operating system
- Modern browser
- Microsoft PowerPoint
 - If you do not already have PowerPoint, students and educators at eligible institutions can sign up for free access to Office 365 Education.
- Ability to display PowerPoint slides to students.
- Ability to display browser-based demonstrations to students (i.e., demonstrate functionality from Azure and/or Microsoft 365 portals).
- Access to GitHub for availability of demo scripts and lab instructions.
- Azure subscription (highly recommended)
 - It is highly recommended that educators obtain an Azure subscription to demonstrate, where possible, the Azure functionality covered in the interactive click-through guides, the video walkthroughs, and/or the demo scripts available on GitHub (refer to the In-Class Demos section of this document for a list of demos).

- Microsoft 365 subscription (highly recommended)
 - Although not required, it is desirable that instructors obtain, when possible, a Microsoft 365 subscription to demonstrate functionality described in the click-through guides, the video walkthroughs, and/or the demo scripts available on GitHub (refer to the In-Class Demos section of this document for a list of demos). Depending on the plan, some features described in the interactive click-through guides and demos scripts may not be available. For a list of available features by plan, refer to Microsoft 365 Education Service Descriptions.

Student hardware and software requirements:

- PC or laptop
- Access to the internet
- Modern operating system
- Modern browser
- Azure subscription (optional)
 - o It is recommended that students obtain an Azure subscription to explore, where possible, the Azure functionality covered in the interactive click-through guides and video walkthroughs.
- Microsoft 365 subscription (optional)
 - Although not required, it is desirable that student obtain, when possible, a Microsoft 365 subscription to explore, where possible, the functionality described in the click-through guides and video walkthroughs.
 Depending on the plan, some features described in the interactive click-through guides may not be available. For a list of available features by plan, refer to Microsoft 365 Education Service Descriptions.
- GitHub access
 - o In cases where students are provided the recommended Microsoft 365 tenant, through an ALH, and an Azure pass (or where instructors have checked the suitability of a lab with a free/trial subscription), then students may want to download lab instructions from GitHub.

Classroom hardware and software requirements

- Access to the Internet
- An open Port 80 and Port 443 so you and your students can access Azure and Microsoft via a modern web browser.

Configure your classroom demos

Overview

Review the following information on platforms, technologies, and best practices to ensure you are ready to teach the demonstrate functionality.

Microsoft Learn

The Microsoft Learn platform is used for aligned online learning. The links to the SC-900 content on Learn are shown in the SC-900 Microsoft Security, Compliance, and Identity Fundamentals course datasheet.

- Students can access course content on Microsoft Learn without a profile or signing in.
- Additional features become available when students are signed-in and create a profile. These features include:
 - Progress tracking on learning activities.
 - Experience points to measure achievement in completing lessons.
 - o Badges to demonstrate completion of a module.
 - Trophies when an entire learning path is completed.
 - Free Azure resources to access tools (where applicable).

See the description of the Learn Catalog API to understand the options for integrating Microsoft Learn content into your learning management system (LMS). You can also apply to participate in the Catalog API Preview (CAP) Program if you wish to participate in early previews of new features.

Azure Subscriptions

Although an Azure subscription is not currently required to teach this course, it is highly recommended that instructors obtain a subscription to demonstrate functionality described in the demo scripts and/or the click-through guides. Where possible, it is also desirable for students to obtain an Azure subscription to explore the Azure portal and follow the steps from the interactive guides. Similarly, some Azure specific labs may work in the free/trial Azure subscription. Instructors should review these for suitability in a free/trail environment before recommending them to students.

Azure for Students gives eligible students access to free developer tools and Azure credit. It does not require a credit card. Check the Azure for Students website and the Azure for Students frequently asked questions document for the most up-to-date details, including eligibility and activation instructions. Remind students to use their school email address to verify their student status.

Students can visit the Education Hub to download free software once they've activated their Azure for Students offer.

Educators, faculty, and students who do not qualify for Azure for Students are eligible for an Azure free account and free Azure credit. A credit card is required to sign up, but you pay nothing up front. Check the Microsoft Azure Official Site and the Azure free account frequently asked questions document for the most up-to-date details.

Once you and your students activate your Azure subscriptions, verify you can sign into the Azure portal at https://portal.azure.com.

Microsoft 365 Subscriptions

Although not required to teach this course, it is highly recommended that instructors obtain, whenever possible, a Microsoft 365 subscription to demonstrate functionality described in the demo scripts and/or click-through guides, in a live environment. Similarly, it is desirable for students to obtain a trial plan to explore some of the features described in the interactive click-through guides, in a live environment. Similarly, some Microsoft 365 specific labs may work with a free/trial subscription. Depending on the plan, some features described in the interactive click-through guides and labs may not be available. Instructors should review these before recommending them to students. For a list of available features by plan, refer to Microsoft 365 Education - Service Descriptions.

Instructors and students can get started for free with Office 365 A1 by going Compare Office 365 Education Plans and selecting the "Get started for free" button. It is important to note, however, that this plan provides a limited subset of the security features included in the in the interactive click-through guides.

In-Class Demos

The table below shows all the interactive click-through guides and videos available within the course content (available as links) that can be leveraged for in-class demos. Timing on interactive click-through guides are estimates. Durations may vary based on how much time an instructor or learner takes viewing other options in the user interface.

Module/Lesson/Topic	Asset Type	Asset Title	Duration (min)
Module 1, Lesson 1, Topic 2:	Video - informational	Zero Trust	2.00
Describe the Zero-Trust			
methodology			

Module 1, Lesson 1, Topic 7: Describe the cloud adoption framework	Video - informational	Cloud adoption framework	1.80
Module 1, Lesson 2, Topic 4: Modern Authentication and the role of the identity provider	Video - informational	Azure AD Authentication Fundamentals	4.50
Module 2, Lesson 1, Topic 3: Describe the Azure AD Identity types	Interactive click-through guide	Create a New User in Azure Active Directory	2.00
Module 2, Lesson 2, Topic 2: Describe the different authentication methods of Azure AD	Video – informational	The new sign-in standard: Passwordless authentication	1.88
Module 2, Lesson 2, Topic 5: Describe self-service password rest in Azure AD	Interactive click-through guide	Enable SSPR in Azure Active Directory	3.00
Module 2, Lesson 3, Topic 2: Describe conditional access in Azure AD	Video - informational	Azure AD Conditional Access	1.50
Module 2, Lesson 3, Topic 2: Describe conditional access in Azure AD	Interactive click-through guide	Create a Conditional Access Policy	3.00
Module 2, Lesson 4, Topic 3: Describe entitlement management, access reviews and terms of use	Video – informational	AD entitlement management	3.00
Module 2, Lesson 4, Topic 4: Describe the capabilities of Privileged Identity Management	Video - informational	Privileged identity Management	5.50
Module 3, Lesson 2, Topic 4: Describe Azure Secure Score	Interactive click-through guide	Use Azure secure score to improve your security posture	3.00
Module 3, Lesson 3, Topic 3: Describe integrated threat protection with Sentinel	Video - walk-through	Azure Sentinel	9.50
Module 3, Lesson 4, Topic 2: Describe Microsoft 365 Defender services	Video - informational	M365 Defender	3.50
Module 3, Lesson 4, Topic 6: Describe Microsoft Cloud App Security	Interactive click-through guide	Describe threat protection with Microsoft 365	5.00
Module 3, Lesson 5, Topic 5: Describe Microsoft incidents and management capabilities	Video - walk-through	M365Defender-Incident	4.20
Module 3, Lesson 6, Topic 3: Describe endpoint security with Intune.	Video - walk-through	Explore endpoint security	8.36
Module 4, Lesson 1, Topic 3: Explore the Service Trust Portal	Interactive click-through guide	Explore the Service Trust Portal	3.00
Module 4, Lesson 1, Topic 5: Describe the Compliance Center	Interactive click-through guide	Explore Compliance Center	3.00
Module 4, Lesson 1, Topic 6: Describe Compliance Manager	Video – informational	Compliance Manager	1.50
Module 4, Lesson 1, Topic 7: Describe compliance score	Interactive click-through guide	Explore Compliance Score	3.00

Module 4, Lesson 2, Topic 3: Describe data classification capabilities of compliance center	Video - walk-through	Data Classification in the M365 Compliance Center	4.35
Module 4, Lesson 3, Topic 3: Describe communication compliance	Video - walk-through	Detect Workplace Harassment & Respond - Communication Compliance in Microsoft 365	7.00
Module 4, Lesson 3, Topic 5: Describe privileged access management	Video - walk-through	Privileged Access Management	5.70
Module 4, Lesson 4, Topic 4: Describe the core eDiscovery workflow	Interactive click-through guide	Use eDiscovery to help with investigations	3.00
Module 4, Lesson 4, Topic 6: Describe the core audit capabilities of Microsoft 365	Interactive click-through guide	Search the audit log	3.00
Module 4, Lesson 5, Topic 2: Describe the use of Azure Resource locks	Interactive click-through guide	Use Azure resource lock to lock resources	3.00

The table below lists demo scripts available on GitHub. 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.

SC-900 GitHub Demo List			
Module/Lesson/Topic	Demo	GitHub Demo File Name	
Setup	Pre-demo setup	DEMO_pre_demo_setup.md	
Module 2, Lesson 1, Topic 3: Describe the Azure AD identity types	Azure Active Directory user settings	DEMO_explore_azure_ad.md	
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_sspr.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_defender_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_trust_portal.m d	

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_labels.md
Module 4, Lesson 5, Topic 4: Describe Azure Policy	Azure policy	DEMO_explore_azure_policy.md

Best practices for Demos

As instructors, if you plan to demonstrate functionality covered in the click-through guides, the walk-through videos, and/or the demo scripts from GitHub; and/or want students to explore the capabilities with actual Azure or Microsoft 365 subscriptions, please follow the best practices listed below.

- Communicate Azure for Students setup instructions to students at least 2 weeks prior to the start of class.
- Communicate steps/process to "Get started for free" with the Office 365 A1 plan, at least 2 weeks prior to the start of class.
- Before class starts, review the interactive click-through guides, video walk-throughs, and demo scripts to determine which features are available in your subscription of Azure and/or Microsoft 365. Depending on your subscription level you may be limited in terms of which features you can demonstrate in the actual environment. For a list of available features by plan, refer to Microsoft 365 Education Service Descriptions.
- You can check your Azure credit balance in the Azure portal by visiting Track Microsoft Customer Agreement Azure credit balance and review How credits are used.
- Prompt students to check their Azure balance as an activity during class by visiting Check your credit balance.
- For Microsoft assistance in resolving issues with Azure credit, go to contact support.

Labs

The table below shows the labs available through GitHub. The use of labs by students assumes the availability of the environment through an ALH and an Azure pass. 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.

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 Azure AD identity types	Explore Azure Active Directory	LAB_01_explore_azure_ad.md	
Module 2, Lesson 2, Topic 5: Describe self- service password reset in Azure AD	Explore Azure AD Authentication with self- service password reset	LAB_02_explore_azure_ad_sspr. md	
Module 2, Lesson 3, Topic 2: Describe conditional access in Azure AD	Explore access management in Azure AD with Conditional	LAB_03_explore_azure_cond_ac cess.md	
Module 2, Lesson 4, Topic 4: Describe the capabilities of Privileged Identity Management	Explore identity governance in Azure AD with Privileged Identity management	LAB_04_explore_pim.md	

Module 3, Lesson 1, Topic 2: Describe Azure	Explore Azure Network	LAB_05_explore_nsg.md
Network Security groups	Security Groups (NSGs)	
Module 3, Lesson 2, Topic 3: Describe Azure	Explore Azure Security Center	LAB_06_explore_asc.md
Security Center		' _
Module 3, Lesson 3, Topic 3: Describe	Explore Azure Sentinel	LAB_07_explore_sentinel.md
integrated threat protection Sentinel	<u> </u>	' _
Module 3, Lesson 4, Topic 6: Describe	Explore Microsoft Cloud App	LAB_08_explore_mcas.md
Microsoft Cloud App Security	Security	·
Module 3, Lesson 5, Topic 2: Describe the	Explore the Microsoft 365	LAB_09_explore_m365_defend
Microsoft 365 Defender portal	Defender portal	er_portal.md
Module 3, Lesson 6, Topic 3: Describe	Explore Microsoft Intune	LAB_10_explore_intune.md
endpoint security with Intune	·	
Module 4, Lesson 1, Topic 3: Explore the	Explore the Service Trust Portal	LAB_11_explore_service_trust_p
Service Trust Portal	'	ortal.md
Module 4, Lesson 1, Topic 5: Describe the	Explore the Microsoft 365	LAB_12_explore_compliance.m
Compliance Center	compliance center &	gr.md
'	Compliance Manager	
Module 4, Lesson 2, Topic 4: Describe	Explore sensitivity labels in	LAB_13_explore_sensitivity_lab
sensitivity labels	Microsoft 365	els
Module 4, Lesson 3, Topic 2: Describe the	Explore Insider Risk	LAB_14_explore_insider_risk_m
Insider Risk Management solution	Management in Microsoft 365	gt.md
Module 4, Lesson 4, Topic 5: Describe the core	Explore the Core eDiscovery	LAB_15_explore_core_ediscove
eDiscovery workflow	workflow	ry.md
Module 4, Lesson 5, Topic 4: Describe Azure	Explore Azure Policy	LAB_16_explore_azure_policy.
Policy		md
- 7		