

Microsoft Azure Certified Data & AI Track

# AZ-900: Microsoft Azure Fundamentals

March 2023

# Table of Contents

## Introduction to the AZ-900

Introduction	3
Why complete this certificate?	3

## Learning materials for the AZ-900

Mandatory learning materials	4
Training Days	4
Additional learning materials	5

## How to prepare for the AZ-900

Scheduling your exam	6
Preparing for the exam	6
What to expect from the exam?	7

## Questions?

Where to go with questions?	8
-----------------------------	---

### Links

Bold underlined text in Plum color is a clickable link. [\*\*I am a link, click me!\*\*](#)

# Introduction to the AZ-900

Here you will learn more about the AZ-900 and why it is an important topic to learn.

## Introduction to the AZ-900

Mastering the basics in Microsoft Azure will help you jump start your career in the field of data. Therefore, we start here! During this course, you are going to learn the foundations of the Azure Cloud. This means that you are going to understand the benefits of cloud computing in Azure, that you will get familiar with the Azure jargon, and that you will learn to describe Azure's core services. In other words, you will familiarize yourself with the many technical opportunities Microsoft Azure has to offer.

After completing this course, you should be able to demonstrate a fundamental understanding of cloud concepts, Microsoft Azure services, workloads, security, privacy, pricing, and support. For more information check out the Microsoft website about the AZ-900 exam: [Exam AZ-900: Microsoft Azure Fundamentals—Certifications | Microsoft Learn](#).

## Why is obtaining the AZ-900 important?

The AZ-900 certification is a great way to get started with Microsoft Azure. Not only is the knowledge that you gain about cloud computing required in any data related position, the certificate itself will be a great credential to show to your employer and/or clients. It shows that you have the skills to work with Microsoft cloud services, that you know the difference between IaaS, PaaS, and SaaS and show the value of Azure network connectivity and good security practices.

### The benefits of getting Microsoft certified:

- **Flexibility.** This certification enables you to pursue a wide range of career options in the field of data. It lays the foundation for you to become a cloud architect, a developer, or a solution architect.
- **Fast learning process.** Microsoft Azure provides a concise learning approach for certifications, which enables quick learning. You do not have to learn how to use all the different Azure tools. You can find many other easy-to-learn tools like Hadoop, Xcode, and Eclipse. As a result, beginners can quickly adapt to the platform and use Azure services with ease.
- **Improve security standards for future employer.** Microsoft Azure certifications provide access to better security offerings, like the Security Development Lifecycle (SDL). SDL assures that you get complete protection and security for your Azure applications. In addition, the European data protection authorities consider Azure to be a valid and trusted cloud service.
- **Proof of commitment.** An Azure certification proves that you are able to commit, since you have to go through a lot to get one. To get a certificate, you have to sign up for a course, study, and then pass all exams. This implies that you can commit your time and resources towards achieving a goal, and that you are dedicated to improving your career objectives in the long term.
- **Reduce cost for future employer.** As a certified Azure professional, you know how to reduce IT costs in your company by effectively scaling and managing hosted assets. In addition, certified professionals can reduce costs in critical areas like power utilisation, new software redesign, and maintenance of information security systems.
- **Professional Development.** The demand for Azure services grows every day. Different certification types provide a solid base for professional development. These certifications cover multiple topics for developers and solution experts. In addition, more than six million government organizations use Azure cloud services. This means that you can also get a position in a government organization.

# Learning materials for the AZ-900

Here you will learn more about learning materials for the AZ-900.

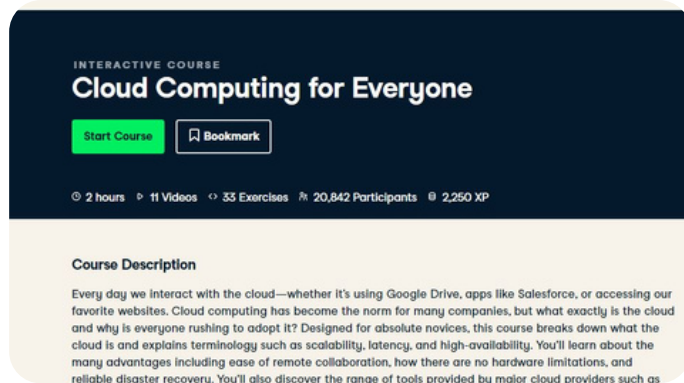
## What to learn

In this section, we'll cover the mandatory learning materials that prepare you for the AZ-900 exam. In a later section, we will also share some recommendations for additional resources that you can use to expand your knowledge.

## Mandatory learning materials

To help you learn the hard skills needed as a Microsoft data professional, we will use the tools listed below. For more information about these tools, check out our Starter Guide which can be found in the file folder of the general channel.

### DataCamp



DataCamp is an interactive learning platform for data science. Through DataCamp, you can learn programming languages like Python and SQL through over 100 expert-taught courses. With its in-browser coding exercises, hands-on projects, and gamification features, DataCamp is the favorite learning platform of many Techionistas. After starting at the Techionista Academy, you will receive login details for DataCamp, giving you access to all their premium content during the track. For the AZ-900 course, you'll have to complete one DataCamp module:

- [Cloud Computing for Everyone](#) (2 Hours)

### Microsoft Learn

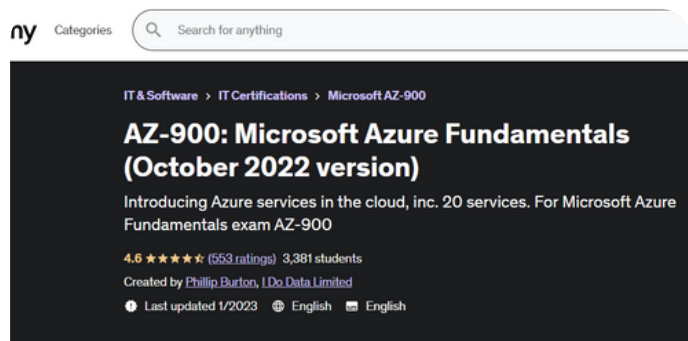


Microsoft Learn provides free interactive, hands-on training content continuously updated by Microsoft. This is especially useful when preparing for Microsoft Certifications, as you can be confident that you are always learning the latest updated content. With over 1000+ courses available on the platform, you can learn a variety of topics. Microsoft Learn offers single modules and learning paths that combine single modules, allowing you to follow a step-by-step learning journey.

The learning path that you will complete for the AZ-900 is as follows:

- [Describe cloud concepts](#)
- [Describe Azure architecture and services](#)
- [Describe Azure management and governance](#)

## Udemy



Udemy offers online on-demand courses in video format for many topics, including the Microsoft certification exams.

The course that we've selected for the AZ-900 is the: [AZ-900: Microsoft Azure Fundamentals by Phillip Burton](#). This course includes practice tests and demo resources and will help you–

- Understand cloud concepts
- Understand core Azure services
- Understand core solutions and management tools on Azure
- Understand general security and network security features
- Understand identity, governance, privacy, and compliance features
- Understand Azure cost management and Service Level Agreements

## Training days with a Microsoft Certified Trainer

To make sure you have the chance to ask all your questions to a Microsoft Certified Trainer, we also organize 1 training day as an exam prep session for the AZ-900.

## Additional learning materials

Below you will find some additional informative resources that will help you with your Azure Fundamentals exam.

- [Official Microsoft AZ-900 Study Guide](#): Here you can find additional information on the AZ-900 exam.

### Exam AZ-900: Microsoft Azure Fundamentals

#### Purpose of this document

This study guide should help you understand what to expect on the exam and includes a summary of the topics the exam might cover and links to additional resources. The information and materials in this document should help you focus your studies as you prepare for the exam.

Useful links	Description
<a href="#">How to earn the certification</a>	Some certifications only require one exam, while others require more. On the details page, you'll find information about what skills are measured and links to registration. Each exam also has its own details page covering exam specifics.
<a href="#">Your Microsoft Learn profile</a>	Connecting your certification profile to Learn brings all your learning activities together. You'll be able to schedule and renew exams, share and print certificates, badges and transcripts, and review your learning statistics inside

- [Microsoft Sample Questions](#): Some free sample questions provided by Microsoft could give you some experience on what kind of questions you can expect during the exam.
- [Microsoft Exam Sandbox](#): Microsoft has created a demo version of their exam environment. If you are curious about what a Microsoft exam looks like, please look at the Microsoft Exam Sandbox.
- [Azure resources page](#): Official Microsoft Azure page that provides additional information on Azure topics, such as code samples, videos, and documentation.
- [VladTalksTech](#): Personal recommendations from one of our Techionista team members Shyenne. Especially the section AZ-900 articles and blog posts per Azure objective are really helpful if you would like to dive deeper into an Azure topic.

# How to prepare for the AZ-900

Here you will learn more about how to study and prepare for the AZ-900 exam.

## What will the exam test?

The certification validates your basic knowledge of cloud services and how those services are provided with Azure. Candidates should be able to demonstrate a fundamental knowledge of cloud concepts, along with Azure services, workloads, security, privacy, pricing, and support. For a detailed description of what the exam tests, have a look at “skills measured” in the [AZ-900 Exam Study Guide \(microsoft.com\)](https://microsoft.com/az900-exam-study-guide).

## Scheduling your exam

### When to schedule your exam?

If you follow the Data & AI long track, it is important that you stay on track so that you can keep up with the live training sessions. Therefore, we recommend you to schedule your AZ-900 exam after the exam prep session. Based on the overall schedule, we always share a recommended date to take your exam from our side. However, it is good to keep in mind that you should only schedule the exam when you are ready to take it, as this will increase your chances of passing.

If you are not ready to take it before continuing to the next block or if you failed the exam, please reach out to your Data & AI Mentor/Coach to discuss individual next steps.

### How to schedule your exam?

You will receive an exam voucher from Techionista with which you can schedule your exam free of charge. This voucher can be used only once and has to be used before the expiration date of that voucher. After the voucher expires, you can no longer use it. Therefore, it is important that you schedule your exam before the expiration date. You can schedule your exam quite far in the future, so you can make use of this if you do not feel quite ready yet. If you unexpectedly won't be able to take the exam on this date, you can then reschedule (have a look at the Microsoft website for the specific rules as these do change from time to time).

You can schedule your exam yourself with Pearson VUE, a provider of global computer-based tests. Pearson VUE provides licensure and certification exams for companies such as Microsoft, Cisco, Oracle, HP, and many more. You will find step-by-step instructions on how to schedule your exam using Pearson VUE in the [Pearson VUE guide](#). You will need to be logged into your Techionista account to view this guide.

## Preparing for the exam

Once you have committed to a date and scheduled your exam, it is time to start preparing for it! Our best advice? Practice, practice, practice! We recommend that you practice with as many exam questions that you can get your hands on. Start with MeasureUp, the official Microsoft Exam Practice Tool that helps you prepare for Microsoft Exams Certifications. We purchased the MeasureUp practice environment for you so all you have to do is log in to your MeasureUp environment in Teams (channel '02 Measure Up') and get started.

The AZ-900 MeasureUp practice test has 172 questions with detailed explanations. These practice questions are also a great tool to study together with fellow Techionistas. Most important here is to go further than “learning what the right answer is” and to move towards “understanding *why* it is the right answer”.

You will find step-by-step instructions on how to get started with and make the most out of MeasureUp in the MeasureUp guide.

# What to expect during the exam?

## Where will you take the exam?

You can take the online version of the exam from your home/office. Alternatively, you can arrange to take the exam in an official Microsoft exam center when registering for the exam.

## What will the exam look like?

You can expect around 40 to 60 questions. For a fundamentals exam, you have 45 minutes to complete the exam. Seat duration is 65 minutes which refers to the amount of time that you should allocate for the exam. It includes the time needed to review the instructions, read and accept the NDA, complete the exam questions, and provide comments after completing it (if you choose to do so).

There are different types of questions asked during the exam including case study, short answers, multiple-choice, mark review, drag and drop, etc., just like in MeasureUp.

## When do you pass the exam?

You are required to score a minimum of 700 to pass the exam. Anyone scoring less than this mark will be considered a fail. Just on submission of the paper, your result will be declared within a few minutes. Your scorecard will contain details including overall performance in the exam, PASS/FAIL status, a bar chart demonstrating your performance in key areas of the exam, together with the instructions on exam results interpretation.

To learn more about:

- [Microsoft exam scores](#)
- [Exam duration and question types](#)
- [Register and schedule an exam](#)



# Questions?

Here you will find more information about where to ask questions and find help.

## Where to go with questions?

A part of becoming a data analyst, data engineer, or data scientist is having good problem solving skills. Throughout the track, you may run into situations where you feel stumped and need help finding an answer. In order to practice great problem solving skills there are a few avenues of support we recommend trying before using the Question Form provided by Techionista. Here are the avenues available to you that can help you find answers to many problems:

### Your favorite search engine

Google (or your favorite search engine) will be your best friend during this track! If you find yourself stuck, the possibility of finding your answer online is high and we always recommend starting there. You would also be surprised by how many data experts use the internet to search for answers in a daily basis!

### Your fellow Techionistas

If you still can't find the answer you are looking for on the internet or via one of the learning materials provided check with your study group or the other members of your cohort! Chances are someone may have the answer to your question or there are other people in the group who also are wondering the same thing! You can work together to share knowledge and find answers, which are also important skills to have: teamwork and collaboration!

### Live training days

Come prepared for live training days with your hard skills questions! The best time and place to get your questions answered is by our great instructors. During live training days, there is always enough time to answer your remaining questions.

### Weekly Open Coffees

If you have general questions about the track's schedule or assignments, the Open Coffee is a great place to ask! During Open Coffees we provide you with an overview of the upcoming weeks and have plenty of time for questions!

### Question Form

If you are unable to find an answer to your question, please don't hesitate to ask the Techionista Team! Whether it be about the hard skills, career skills, schedule, or a personal issue, please reach out via the [Question Form](#). The Question Form then is routed to the rest team member for your question and you will receive a response via a MS Teams message within two working days.