

Study Guide

Exam PL-900: Microsoft Power Platform Fundamentals

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Purpose of this document

This study guide should help you understand what to expect on *Exam PL-900: Microsoft Power Platform Fundamentals*, 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.

Certification

Certification journey

For an overview of attaining Microsoft Certification, including prerequisites (if any) and additional resources, explore [The journey to Microsoft Certified: Power Platform Fundamentals](#).

Certification renewal

Once you earn your certification, don't let it expire. When you have an active certification that's expiring within six months, you should renew it—at no cost—by passing a [renewal assessment on Microsoft Learn](#). Remember to renew your certification annually, if you want to retain it.

To identify which certifications are available for you to renew, visit your Certifications in your Microsoft Learn profile:

- Ensure your certification profile is connected to your Learn profile.
- Expect an email that directs you to the applicable assessment that you must pass on Microsoft Learn. You'll receive this email as soon as you have a certification that you're eligible to renew.
- When you pass an online assessment, your certification will extend by one year from the current expiration date.
- To help prepare for the assessment, explore the collection of free modules on the certification renewal page.

About the exam

[Exam PL-900: Microsoft Power Platform Fundamentals](#) is required to earn the [Power Platform Fundamentals certification](#).

This exam measures your ability to describe the business value of Microsoft Power Platform; identify the core components of Power Platform; demonstrate the capabilities of Power BI; describe the capabilities of Power Apps; demonstrate the capabilities of Power Automate; and demonstrate the business value of Power Virtual Agents.

As an exam candidate, you should aspire to improve productivity by understanding the capabilities of Power Platform, automating basic business processes with Power Automate, performing basic data analysis with Power BI, acting more effectively by creating simple Power Apps experiences, and creating powerful chatbots by using Power Virtual Agents.

Passing score

A passing score is 700. [Learn more about exam scoring and score reports.](#)

What to expect on the exam

Are you new to Microsoft certification exams? You can explore the exam environment by visiting our [exam sandbox](#). We created the sandbox so you have an opportunity to experience an exam before you take it. In the sandbox, you can interact with different question types, such as *build list*, *case studies*, and others that you might encounter in the user interface when you take an exam. Additionally, it includes the introductory screens, instructions, and help topics related to the different types of questions that your exam might include. It also includes the non-disclosure agreement that you must accept before you can launch the exam.

Prepare to take the exam

There are several points to consider, or pursue, as you prepare for an exam. The following sections detail those points.

Request accommodations

We're committed to ensuring all learners are set up for success. If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an accommodation. We encourage you to learn more about available accommodations and how to obtain them by [visiting this page](#).

Take practice tests

Taking a practice test is a great way to know whether you're ready to take the exam or if you need to study a bit more. Subject-matter experts write the Microsoft Official Practice Tests, which are designed to assess all exam objectives. Take the [PL-900: Microsoft Power Platform Fundamentals Microsoft Official Practice Test](#).

Objective domain: skills the exam measures

The English language version of this exam was updated on April 29, 2022. If you're taking this exam's English version on or after this date, this is the correct study guide.

Some exams are localized into other languages, and those are updated approximately eight weeks after the English version is updated. Other available languages are listed in the **Schedule Exam** section of the **Exam Details** webpage. If the exam isn't available in your preferred language, you can request an additional 30 minutes to complete the exam.

Note

The bullets that follow each of the skills measured are intended to illustrate how we are assessing that skill. Related topics may be covered in the exam.

Note

Most questions cover features that are general availability (GA). The exam may contain questions on Preview features if those features are commonly used.

Skills measured

- Describe the business value of Microsoft Power Platform (20–25%)
- Identify the core components of Microsoft Power Platform (10–15%)
- Demonstrate the capabilities of Power BI (20–25%)
- Demonstrate the capabilities of Power Apps (25–30%)
- Demonstrate the capabilities of Power Automate (10–15%)
- Demonstrate the capabilities of Power Virtual Agents (5–10%)

Functional groups

Describe the business value of Microsoft Power Platform (20-25%)

Describe the business value of Microsoft Power Platform services

- Gain insights into data by using Power BI
- Build applications quickly by using Power Apps
- Automate processes by using Power Automate
- Use connectors to access services and data
- Create powerful chatbots by using the Power Virtual Agents web app and Power Virtual Agents in Microsoft Teams

Describe the business value of extending business solutions by using Microsoft Power Platform

- Describe how Microsoft Power Platform apps work together with Dynamics 365 apps
- Describe how Microsoft Power Platform business solutions can be used by Microsoft 365 apps and services
- Describe how to use Microsoft Power Platform solutions with Microsoft Teams
- Describe how Microsoft Power Platform business solutions can consume Microsoft Azure services including Azure Cognitive Services
- Describe how Microsoft Power Platform business solutions can consume third-party apps and services
- Describe use cases for AppSource
- Describe how Microsoft Power Platform apps work together

Describe Microsoft Power Platform administration and security

- Describe how Microsoft Power Platform implements security including awareness of Microsoft Dataverse security roles, Azure Identity Services, and Access Management (IAM)
- Describe how to manage apps and users
- Describe environments
- Describe where to perform specific administrative tasks including Microsoft Power Platform Admin center and Microsoft 365 admin center
- Describe data policies
- Describe how Microsoft Power Platform supports privacy and accessibility guidelines
- Describe Microsoft Power Platform privacy and accessibility capabilities
- Describe Microsoft Power Platform governance capabilities

Identify the core components of Microsoft Power Platform (10-15%)

Describe Microsoft Dataverse

- Describe the difference between databases and Dataverse
- Describe the differences between Dataverse and Dataverse for Teams
- Describe tables, columns, and relationships
- Describe how to use common standard tables to describe people, places, and things

Describe Connectors

- Describe triggers including trigger types and where triggers are used
 - Describe actions
 - Describe licensing options for connectors including standard or premium tier
- Identify use cases for custom connectors

Describe AI Builder

- Identify the business value of AI Builder
- Describe models including business card reader, detection model, form processing model, and prediction model
- Describe how the Power Apps and Power Automate can consume AI Builder data

Demonstrate the capabilities of Power BI (20-25%)

Identify common Power BI components

- Identify and describe uses for visualization controls including pie, bar, donut, and scatter plots and KPIs
- Describe the Power BI Desktop Reports, Data, and Model tabs
- Compare and contrast Power BI Desktop and Power BI Service
- Compare and contrast dashboards, workspaces, and reports
- Describe the Power BI security model

Connect to and consume data

- Connect to and combine data from multiple sources including Microsoft Excel
- Describe how to use Power Query to clean and transform data
- Describe and implement aggregate functions
- Identify available types of data sources including Microsoft Excel
- Describe use cases for shared datasets
- Describe use cases for template apps
- Describe options for viewing Power BI reports and dashboards

Build a basic dashboard using Power BI

- Create a Power BI report
- Create a Power BI dashboard
- Publish and share reports and dashboards

Demonstrate the capabilities of Power Apps (25-30%)

Identify common Power Apps components

- Describe the differences between canvas apps and model-driven apps
- Describe use cases for formulas

Build a basic canvas app

- Describe types of data sources
- Connect to data by using connectors
- Create an app from data
- Use controls to design the user experience
- Publish and share an app

Build a basic model-driven app

- Create a model-driven app from tables
- Modify forms
- Create and modify views
- Publish and share an app

Demonstrate the capabilities of Power Automate (10-15%)

Identify common Power Automate components

- Identify flow types including cloud, desktop, and business process flows
- Describe use cases for flows and available flow templates
- Describe how Power Automate uses connector triggers and actions
- Describe loops and conditions including switch, do until, and apply to each
- Describe expressions

- Describe use cases for approvals
- Describe the Power Automate apps, including Power Automate Desktop, Power Automate mobile, and Power Automate portal

Build a basic cloud flow

- Create a flow by using an instant, automated, or scheduled flow template
- Modify a cloud flow
- Use flow controls to perform data operations
- Run a cloud flow

Demonstrate the capabilities of Power Virtual Agents (5-10%)

Describe the capabilities of Power Virtual Agents in Microsoft Teams

- Describe use cases for Power Virtual Agents within Microsoft Teams
- Describe topics, entities and actions
- Describe message nodes, question nodes, conditions, trigger phrases, and the authoring canvas

Build and publish a basic chatbot

- Create a chatbot
- Create a topic
- Call an action
- Launch a Power Automate flow from a chatbot
- Publish a chatbot

Corresponding learning paths and modules

The design of learning paths and modules should teach you how to perform a role and will help you study for the applicable exam. However, learning paths aren't always in the same order as an exam's "skills measured" list. Therefore, we've created a convenient table that links the skills measured to specific paths and modules.

Exam skills measured	Links to learning paths
Describe the business value of Microsoft Power Platform (20–25%)	<ul style="list-style-type: none"> • Introduction to Microsoft Power Platform - Learn Microsoft Docs • Introduction to Dataverse - Learn Microsoft Docs
Identify the core components of Microsoft Power Platform (10–15%)	<ul style="list-style-type: none"> • Introduction to Microsoft Power Platform - Learn Microsoft Docs • How to build a canvas app - Learn Microsoft Docs

Exam skills measured	Links to learning paths
Demonstrate the capabilities of Power BI (20–25%)	<ul style="list-style-type: none"> • Introduction to Power BI - Learn Microsoft Docs • How to build a simple dashboard - Learn Microsoft Docs
Demonstrate the capabilities of Power Apps (25–30%)	<ul style="list-style-type: none"> • Introduction to Power Apps - Learn Microsoft Docs • How to build a model-driven app - Learn Microsoft Docs
Demonstrate the capabilities of Power Automate (10–15%)	<ul style="list-style-type: none"> • Introduction to Power Automate - Learn Microsoft Docs • How to build an automated solution - Learn Microsoft Docs
Demonstrate the business value of Power Virtual Agents (5–10%)	<ul style="list-style-type: none"> • Introduction to Power Virtual Agents - Learn Microsoft Docs

Additional study resources

We offer several resources to help you prepare for the exam and stay current and engaged with the Microsoft Azure community. These resources range from formal training to blogs and even interviews with Microsoft team members.

Study resource link	Resource description
Course PL-900T00: Microsoft Power Platform Fundamentals	Take a one-day, instructor-led course that explains the business value and product capabilities of Microsoft Power Platform.
Microsoft Power Apps documentation - Power Apps Microsoft Docs	Stay informed on the latest products, tools, and features, and get information on pricing, partners, support, solutions, and more.
#LessCodeMorePower	The show all about PowerApps.
Microsoft Learn Community Blog	Get the latest information about certification tests and exam study groups.