Exam PL-900: Microsoft Power Platform Fundamentals – Skills Measured

The English language version of this exam will be updated on April 29, 2022.

Following the current exam guide, we have included a version of the exam guide with Track Changes set to “On,” showing the changes that will be made to the exam on that date.

NOTE: Passing score: 700. Learn more about exam scores.

Audience Profile

Candidates for this exam aspire to improve productivity by understanding the capabilities of the 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.

Skills Measured

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.

Describe the business value of Microsoft Power Platform (15-20%)

Describe the business value of Microsoft Power Platform services

- analyze data by using Power BI
- act with Power Apps
- build solutions that use Microsoft Dataverse
- create flows by using Power Automate
- use connectors to access services and data
- create powerful chatbots by using a guided, no-code graphical interface

Describe the business value of extending business solutions by using Microsoft Power Platform
- describe how Dynamics 365 apps can accelerate delivery of Microsoft Power Platform business solutions
- describe how Microsoft Power Platform business solutions can be used by Microsoft 365 apps including Microsoft Teams
- describe how Microsoft Power Platform business solutions can consume Microsoft 365 services
- 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 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, Microsoft 365 admin center
- describe Data Loss Prevention (DLP) policies
- describe how the platform supports privacy and accessibility guidelines

**Identify the Core Components of Microsoft Power Platform (15-20%)**

**Describe Microsoft Dataverse**

- describe the Power Apps user experience
- describe tables, columns, and relationships
- describe use cases for solutions
- describe use cases and limitations of business rules
- describe the Common Data Model (CDM)
- describe how to use common standard tables to describe people, places, and things

**Describe Connectors**

- describe the native Dataverse connection experience
- 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 (15-20%)

Identify common Power BI components

- identify and describe uses for visualization controls including pie, bar, donut, and scatter plots and KPIs
- describe types of filters
- describe the Power BI Desktop Reports, Data, and Model tabs
- describe uses for custom visuals including charts or controls
- compare and contrast dashboards and workspaces
- compare and contrast Power BI Desktop and Power BI Service
- compare and contrast dashboards, workspaces, and reports

Connect to and consume data

- combine multiple data sources
- clean and transform data
- describe and implement aggregate functions
- identify available types of data sources including Microsoft Excel
- describe use cases for shared datasets and template apps and how to consume each

Build a basic dashboard using Power BI

- design a Power BI dashboard
- design data layout and mapping
- publish and share reports and dashboards

Demonstrate the capabilities of Power Apps (15-20%)

Identify common Power Apps components

- describe differences between canvas apps and model-driven apps
- describe portal apps
- identify and describe types of reusable components including canvas component libraries and Power Apps Component Framework (PCF) components
- describe use cases for formulas

Build a basic canvas app
• describe types of data sources
• connect to data by using connectors
• combine multiple data sources
• use controls to design the user experience
• describe the customer journey
• publish and share an app

Describe Power Apps portals
• create a portal by using a template
• describe common portal customizations
• identify differences in portal behavior based on whether a user is authenticated
• apply a theme to a portal

Build a basic model-driven app
• add tables to app navigation
• modify forms and views
• publish and share an app

Demonstrate the capabilities of Power Automate (15-20%)

Identify common Power Automate components
• identify flow types
• describe use cases for flows and available flow templates
• describe how Power Automate uses connectors
• describe loops and conditions including switch, do until, and apply to each
• describe expressions
• describe approvals

Build a basic flow
• create a flow by using the button, automated, or scheduled flow template
• modify a flow
• use flow controls to perform data operations
• run a flow
• modify a flow

Demonstrate the capabilities of Power Virtual Agents (10-15%)

Describe Power Virtual Agents capabilities
• describe use cases for Power Virtual Agents
• describe where you can publish chatbots
• describe topics, entities and actions
• describe message nodes, question nodes, conditions, trigger phrases, and the authoring canvas
• identify common pre-built entities

Build and publish a basic chatbot
• create a chatbot
• create a topic
• call an action
• test a chatbot
• publish a chatbot
• monitor chatbot usage
• monitor chatbot performance

The following exam guide shows the changes that will be implemented on April 29, 2022 to the English language version of this exam.

Audience Profile

Candidates for this exam aspire to improve productivity by understanding the capabilities of the Microsoft 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.

Skills Measured

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.

Describe the business value of Microsoft Power Platform (1520-2025%)

Describe the business value of Microsoft Power Platform services
• analyze-Gain insights into data by using Power BI
• **Build applications quickly by using** Power Apps
• **build solutions that use Microsoft Dataverse**
• **create flowsAutomate processes** by using Power Automate
• use connectors to access services and data
• create powerful chatbots by using a guided, no-code graphical interface 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 Dynamics 365 apps can accelerate delivery of Microsoft Power Platform business solutions**
• **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 including Microsoft Teams and services**
• **Describe how to use Microsoft Power Platform solutions with Microsoft Teams**
• **describe how Microsoft Power Platform business solutions can consume Microsoft 365 services**
• 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 Loss Prevention (DLP) data policies
• **describe how the platform 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 (1510-2015%)

Describe Microsoft Dataverse

- describe the Power Apps user experience
- describe the differences between databases and Dataverse
- describe the differences between Dataverse and Dataverse for Teams
- describe tables, columns, and relationships
- describe use cases for solutions
- describe use cases and limitations of business rules
- describe the Common Data Model (CDM)
- describe how to use common standard tables to describe people, places, and things

Describe Connectors

- describe the native Dataverse connection experience
- 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 (1520-2025%)

Identify common Power BI components

- identify and describe uses for visualization controls including pie, bar, donut, and scatter plots and KPIs
- describe types of filters
- describe the Power BI Desktop Reports, Data, and Model tabs
- describe uses for custom visuals including charts or controls
- compare and contrast dashboards and workspaces
- 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
- Combine multiple data sources
- 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 and template apps and how to consume each
- Describe options for viewing Power BI reports and dashboards

Build a basic dashboard using Power BI

- Design Create a Power BI report
- Create a Power BI dashboard
- Design data layout and mapping
- Publish and share reports and dashboards

Demonstrate the capabilities of Power Apps (15-2025-30%)

Identify common Power Apps components

- Describe differences between canvas apps and model-driven apps
- Describe portal apps
- Identify and describe types of reusable components including canvas component libraries and PowerApps Component Framework (PCF) components
- 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
- Combine multiple data sources
- Use controls to design the user experience
- Describe the customer journey
- Publish and share an app

Describe Power Apps portals

- Create a portal by using a template
- Describe common portal customizations
• identify differences in portal behavior based on whether a user is authenticated
• apply a theme to a portal

Build a basic model-driven app

• Create a model-driven app from tables
• add tables to app navigation
• Modify forms
• Create and modify and views
• publish and share an app

Demonstrate the capabilities of Power Automate (1510-2015%)

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 the option an instant, automated, or scheduled flow template
• Modify a cloud flow
• modify a flow
• use flow controls to perform data operations
• run a flow
• modify a flow

Demonstrate the capabilities of Power Virtual Agents (510-1510%)

Describe the capabilities of Power Virtual Agents in Microsoft Teams

• describe use cases for Power Virtual Agents within Microsoft Teams
• describe where you can publish chatbots
• describe topics, entities and actions
• describe message nodes, question nodes, conditions, trigger phrases, and the authoring canvas
• identify common pre-built entities
Build and publish a basic chatbot

- create a chatbot
- create a topic
- call an action
- test Launch a Power Automate flow from a chatbot
- publish a chatbot
- monitor chatbot usage
- monitor chatbot performance