

Report Simplified– Creating Amazing Data Reports with Excel, Word, PowerPoint, and Microsoft Copilot

Overview

The Microsoft Power Platform helps organizations optimize their operations by simplifying, automating and transforming business tasks and processes. In this course, students will learn how to build Power Apps, Automate Flows and extend the platform to complete business requirements and solve complex business problems.

Course Objectives

By the end of this course, participants will:

- Enable participants to design, build, and customize Power Apps solutions using both model-driven and canvas approaches, while leveraging Common Data Service (Dataverse) effectively.
- Equip learners with the skills to automate and optimize business processes through Power Automate, including the creation of complex workflows and business process flows.
- Prepare participants to extend and integrate Power Platform applications by using advanced development tools, APIs, custom components, and external system integrations.

Duration

- 5 Days

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Who Should Attend

This course is ideal for:

- App Developers and Technical Consultants who want to build and extend business applications using the Power Platform and Dataverse.
- Business Analysts and Process Designers involved in automating workflows, improving data accessibility, and customizing business solutions.
- IT Professionals and Solution Architects responsible for digital transformation initiatives and integrating Power Platform with enterprise systems and Azure.

Learning outcomes:

By the end of this course, participants will be able to:

- Build functional Power Apps applications: Participants will be able to design both model-driven and canvas apps that leverage the Common Data Service (Dataverse), create custom forms, and apply UI best practices.
- Develop advanced app features: Learners will master techniques such as using imperative logic, working with collections, handling delegation, and implementing custom connectors for seamless data integration.
- Automate business processes with Power Automate: Participants will create complex workflows, business process flows, and expressions to streamline organizational processes using Power Automate.
- Extend and customize the Power Platform: Learners will use developer tools to create plug-ins, custom components with Power Apps Component Framework (PCF), client-side scripting, and advanced portal customizations.
- Integrate Power Platform with external systems: Participants will gain skills to use the Common Data Service Web API, integrate Power Platform solutions with Azure, and connect to external data sources securely and efficiently.

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Outline

Day 1

Module 1: Create a model-driven application in Power Apps

This module introduces you to creating a model-driven app in Power Apps that uses Common Data Service.

Lessons

- Introduction to model-driven apps and Common Data Service
- Get started with model-driven apps in Power Apps
- Create and manage entities in Common Data Service
- Create and manage fields within an entity in Common Data Service
- Working with option sets in Common Data Service
- Create a relationship between entities in Common Data Service
- Define and create business rules in Common Data Service
- Create and define calculation or rollup fields in Common Data Service
- Get started with security roles in Common Data Service

Module 2: Create a canvas app in Power Apps

This module introduces you to Power Apps, helps you create and customize an app, and then manage and distribute it. It will also show you how to provide the best app navigation, and build the best UI using themes, icons, images, personalization, different form factors, and controls.

Lessons

- Get started with Power Apps
- Customize a canvas app in Power Apps
- Manage apps in Power Apps
- Navigation in a canvas app in Power Apps
- How to build the UI in a canvas app in Power Apps
- Use and understand Controls in a canvas app in Power Apps
- Document and test your Power Apps application

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Day 2

Module 3: Master advance techniques and data options in canvas apps

This module will help you use advanced formulas, perform custom updates, performance checks and testing. It will also help you to improve user's experience, use custom connectors and focus on working with data source limits.

Lessons

- Use imperative development techniques for canvas apps in Power Apps
- Author an advanced formula that uses tables, records, and collections in a canvas app in Power Apps
- Perform custom updates in a Power Apps canvas app
- Complete testing and performance checks in a Power Apps canvas app
- Work with relational data in a Power Apps canvas app
- Work with data source limits (delegation limits) in a Power Apps canvas app
- Connecting to other data in a Power Apps canvas app
- Use custom connectors in a Power Apps canvas app

Module 4: Automate a business process using Power Automate

This module introduces you to Power Automate, teaches you how to build workflows, and how to administer flows.

Lessons

- Get started with Power Automate
- Build more complex flows with Power Automate
- Introduction to business process flows in Power Automate
- Create an immersive business process flow in Power Automate

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- Understand advanced business process flow concepts in Power Automate
- Introduction to expressions in Power Automate

Day 3

Module 5: Introduction to developing with Power Platform

This module is the first step in learning about platform, tools, and the ecosystem of the Power Platform

Lessons

- Introduction to Power Platform developer resources
- Use developer tools to extend the Power Platform
- Introduction to extending the Microsoft Power Platform

Module 6: Extending the Power Platform Common Data Service

This module looks at the tools and resources needed for extending the Power Platform. We'll start with looking at the SDKs, the extensibility model, and event framework. This learning path also covers when to use plug-ins. Configuration of plug-ins as well as registering and deploying plug-ins.

Lessons

- Introduction to Common Data Service for developers
- Extend plug-ins

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Day 4

Module 7: Extending the Power Platform user experience Model Driven apps

This module describes how to create client scripting, perform common actions with client script, and automate business process flow with client script. Learn about what client script can do, rules, and maintaining scripts. Discover when to use client script as well as when not to use client script.

Lessons

- Introduction to web resources
- Performing common actions with client script
- Automate business process flows with client script

Module 8: Create components with Power Apps Component Framework

This module describes how to get started with Power Apps Component Framework with an introductory module on the core concepts and components. Then it shows you how to build a component and work with advanced Power Apps Component Framework features.

Lessons

- Get started with Power Apps component framework
- Build a Power Apps component
- Use advanced features with Power Apps component framework

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Day 5

Module 9: Extend Power Apps portals

This module describes how to transform a content portal into a full web app interacting with Common Data Service. We will also cover the options available to customizers and developers to extend the portal functionality and integrate with Office 365, Power Platform, and Azure components.

Lessons

- Introduction to Power Apps portals
- Access Common Data Service in Power Apps portals
- Extend Power Apps portals
- Build custom Power Apps portals web templates

Module 10: Integrate with Power Platform and Common Data Service

This module describes how to integrate with Common Data Service using code by learning about Common Data Service API. Get an in-depth overview of options available with Common Data Service to integrate data and events to Azure.

Lessons

- Work with Common Data Service Web API
- Integrate Common Data Service Azure solutionsplug-ins.

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Time	Day 1	Day 2
9:00am - 10:30am	Module 1: Create a model-driven application in Power Apps	Module 3: Master advance techniques and data options in canvas apps
10:30am - 10:45am	Morning Break	
10:45am - 12:30pm	Continuation of Module 1	Continuation of Module 3
12:30pm - 1:30pm	Lunch Break	
1:30pm - 3:30pm	Module 2: Create a canvas app in Power Apps	Module 4: Automate a business process using Power Automate
3:30pm - 3:45pm	Afternoon Break	
3:45pm - 5:00pm	Continuation of Module 2	Continuation of Module 4

Time	Day 3	Day 4
9:00am - 10:30am	Module 5: Introduction to developing with Power Platform	Module 7: Extending the Power Platform user experience Model Driven apps
10:30am - 10:45am	Morning Break	
10:45am - 12:30pm	Continuation of Module 5	Continuation of Module 7
12:30pm - 1:30pm	Lunch Break	
1:30pm - 3:30pm	Module 6: Extending the Power Platform Common Data Service	Module 8: Create components with Power Apps Component Framework
3:30pm - 3:45pm	Afternoon Break	
3:45pm - 5:00pm	Continuation of Module 6	Continuation of Module 8

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Time	Day 5
9:00am - 10:30am	Module 9: Extend Power Apps portals
10:30am - 10:45am	Morning Break
10:45am - 12:30pm	Continuation of Module 9
12:30pm - 1:30pm	Lunch Break
1:30pm - 3:30pm	Module 10: Integrate with Power Platform and Common Data Service
3:30pm - 3:45pm	Afternoon Break
3:45pm - 5:00pm	Continuation of Module 10