

PL-7001: Create and Manage Canvas Apps with Power Apps Course

Course Duration: 8 Hours

Course code: PL-701T00

1. Course Overview

The PL-7001: Create and Manage Canvas Apps with Power Apps course provides a comprehensive introduction to designing, building, and managing rich, responsive Canvas applications using Microsoft Power Apps. You'll learn how to create tailored business solutions, master key design tools and interface controls, connect to multiple data sources, and implement best practices to deliver scalable, maintainable apps.

2. What you'll learn?

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

- Navigate the Power Apps Studio interface and understand Canvas app components.
- Design intuitive user experiences using layout controls, galleries, forms, and media.
- Connect your app to various data sources (e.g., SharePoint, Dataverse, Excel, SQL).
- Implement formulas for logic and interactivity, including functions, variables, conditions, and data operations.
- Manage app lifecycle using version control, environment strategies, and app sharing permissions.
- Incorporate responsive design best practices for multiple device sizes.
- Secure your apps using role-based permissions and governance policies.
- Optimize performance and troubleshoot common issues within Canvas apps.

3. Target Audience

This course is ideal for:

- Business users and citizen developers who want to create custom apps without extensive coding.
- Power Platform administrators and consultants responsible for managing Canvas apps across environments.
- IT professionals seeking to extend their skills in low-code app development and digital process automation.
- Program managers and team leads who plan to deploy task-specific or collaborative apps using Power Apps.

4. Pre-Requisites

- A basic understanding of Microsoft 365 services (e.g., SharePoint, Teams, Power Automate).
- Familiarity with Excel formulas or spreadsheet logic, as Power Apps uses similar expression syntax.
- A working Power Apps license and access to a Power Apps environment to practice hands-on.
- No prior coding or app-development experience is required, but willingness to explore formulas and logic-based design helps.

5. Course content

Module 1: Introduction to Power Apps and Canvas Apps

- Overview of Microsoft Power Platform
- Canvas vs Model-Driven apps
- Navigating the Power Apps Studio interface

Module 2: Designing User Interfaces

- Adding and configuring controls
- Working with galleries, forms, and media elements
- Theming, branding, and screen navigation

Module 3: Connecting to Data Sources

- Using built-in and custom connectors
- Integrating with SharePoint, Dataverse, Excel, SQL Server
- Working with tables, records, and data relationships

Module 4: Implementing App Logic with Power Fx

- Variables, collections, and formulas
- Conditional formatting and interactivity
- Error handling and validation

Module 5: Managing App Lifecycle

- Saving, publishing, and version control
- Exporting and importing apps
- Environment and resource management

Module 6: Sharing, Security, and Governance

- Assigning roles and permissions
- Sharing apps with individuals or teams
- Applying environment policies and governance

Module 7: Responsive Design and Performance Optimization

- Designing for multiple device sizes
- Screen scaling and layout responsiveness
- Performance tuning best practices

Module 8: Advanced Features and Troubleshooting

- Working with delegation
- Patching and updating data

- Using the App Monitor for diagnostics

Module 9: Capstone Project

- Build a complete Canvas app for a real-world business case
- Testing, sharing, and deployment

