



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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PL-400T00: Microsoft Power Platform Developer

CODE:	LÄNGE:	PREIS:
MCS_PL-400T00	40 Hours (5 Tage)	€3,190.00

Description

Mithilfe von Microsoft Power Platform können Organisationen ihre Abläufe optimieren, indem sie Geschäftsaufgaben und -prozesse vereinfachen, automatisieren und transformieren.

In diesem Training erfahren die Trainingsteilnehmer*innen, wie Sie Power Apps erstellen, Abläufe automatisieren und die Plattform erweitern, um Geschäftsanforderungen zu erfüllen und komplexe Geschäftsprobleme zu lösen.

Zielgruppe

Kandidat*innen für diesen Training entwerfen, entwickeln und schützen Power Platform-Lösungen und kümmern sich um die Behandlung entsprechender Probleme. Die Kandidat*innen implementieren die Komponenten einer Lösung, zu denen Anwendungserweiterungen, individuelle Benutzererlebnisse, Systemintegrationen, Datenkonvertierungen, benutzerdefinierte Prozessautomatisierung und benutzerdefinierte Visualisierungen gehören. Den Kandidat*innen werden praktische Kenntnisse zu Power Platform-Diensten vermittelt – einschließlich eines umfassenden Verständnisses der Funktionen, Grenzen und Einschränkungen.

Kandidat*innen müssen über Entwicklungserfahrung in folgenden Bereichen verfügen: JavaScript, JSON, TypeScript, C#, HTML, .NET, Microsoft Azure, Microsoft 365, RESTful Web Services, ASP.NET und Power BI.

Voraussetzungen

JavaScript
JSON
TypeScript
C#, HTML
.NET, Microsoft Azure
Microsoft 365
RESTful Web Services
ASP.NET und
Power BI

Inhalt

	Introduction to model-driven apps	
	Model-driven apps, powered by Microsoft Dataverse	
How to build your first model-driven app with Dataverse	Explore sample apps	
	Introducing model-driven apps	
	Components of model-driven apps	
Get started with model-driven apps in Power Apps	Design model-driven apps	Manage tables in Dataverse
Identify tables and table types in Dataverse		
Create a custom table		
Enable attachments within a table		
Licensing requirements for each table type		
Lab - Create a new custom table and enable attachments	Create and manage columns within a table in Dataverse	

- Define columns in Microsoft Dataverse
- Column types in Microsoft Dataverse
- Add a column to a table
- Create a primary name column
- Restrictions that apply to columns in a table
- Create an auto numbering column
- Create an alternate key Working with choices in Dataverse
- Define choice column
- Standard choices column
- Lab - Create a new choice or modify an existing choice Create a relationship between tables in Dataverse
- Relate one or more tables - Introduction
- Relationship types that are available in Microsoft Dataverse
- Create a one-to-many relationship between tables
- Create a many-to-many relationship between tables
- Edit or delete relationships Define and create business rules in Dataverse
- Define business rules - Introduction
- Define the components of a business rule
- Create a business rule Create and define calculation or rollup columns in Dataverse
- Introduction to rollup columns
- Create a rollup column
- Introduction to calculation columns
- Create a calculation column Get started with security roles in Dataverse
- Introduction to environment roles
- Understand environment roles
- Adding or disabling an environment user
- Understand security concepts in Dataverse
- Understand user security roles and security role defaults
- Exercise - Create a custom role
- Check the roles that a user belongs to
- Configure Dataverse teams for security
- Configure Dataverse group teams for security Get started with Power Apps canvas apps
- Introduction to Power Apps
- Power Apps building blocks
- Exercise - Create your first app in Power Apps
- Ways to build Power Apps
- Power Apps related technologies
- Additional Power Apps related technologies
- Designing a Power Apps app Customize a canvas app in Power Apps
- Improve apps by making basic customizations in Power Apps
- Create a navigation model for your canvas app
- Explore screens and controls in Power Apps Manage apps in Power Apps Power Apps review
- Understanding navigation
- The navigation and back function
- Lab - Create navigation functions
- Navigation in a canvas app in Power Apps More ways to use the navigation function
- Use themes to quickly change the appearance of your app
- Branding a control
- Icons
- Images
- Personalization
- How to build the UI in a canvas app in Power Apps Using the tablet or phone form factors
- Introduction to controls
- Core properties of controls
- Entering and displaying data with text controls
- Additional controls for enhancing your app's usability
- Media
- Use and understand Controls in a canvas app in Power Apps Lab - Create a canvas app with unique controls
- Create test plans
- User interface testing
- Performance optimization
- Diagnostics and analytics
- Document and test your Power Apps application Documentation and the customer
- Imperative versus declarative development
- The three types of variables in Power Apps
- Global variables
- Contextual variables
- Collections
- Use imperative development techniques for canvas apps in Power Apps Additional variable concepts
- Create formulas that use tables, records, and collections in a canvas app in Power Apps

Formulas that process multiple records
 Math operations on tables
 Combine and separate records
 The ForAll function
 Lab - Using the ForAll function in a gallery Perform custom updates in a Power Apps canvas app
 Sometimes you need something more than forms
 Using the Patch function to create and edit records
 Deleting record(s) from data sources and collections
 Using Patch function to update a Gallery Complete testing and performance checks in a Power Apps canvas app
 The importance of thinking about performance
 Improve performance with data sources
 Testing and troubleshooting your app Work with relational data in a Power Apps canvas app
 Work with relationships in Power Apps
 Microsoft Dataverse for apps makes relationships even easier
 Work with data source limits (delegation limits) in a Power Apps canvas app
 Delegation overview
 Functions, predicates, and data sources combine to determine delegation
 Delegation warnings, limits, and non-delegable functions Connect to other data in a Power Apps canvas app
 Overview of the different data sources
 Work with action-based data sources
 Power Automate is a companion to Power Apps Use custom connectors in a Power Apps canvas app
 Overview of custom connectors
 Overview of the custom connector lifecycle Introducing Power Automate
 Use postman for your custom connector Get started with Power Automate Troubleshoot flows
 Build approval flows with Power Automate Provide solutions to real-world scenarios
 Introduction to expressions
 Get started with expressions
 Notes make things easier
 Types of functions
 Introduction to expressions in Power Automate Write complex expressions
 Introduction to Microsoft Power Platform for Developers
 Overview of Microsoft Dataverse and the Common Data Model
 Introduction to Microsoft Power Platform developer resources Extending Power Platform with Azure
 Introduction to developer Microsoft Power Platform tooling
 Solutions overview
 Use developer tools to extend Microsoft Power Platform Deploy apps with Package Deployer
 Introduction
 User experience extensibility
 Microsoft Dataverse extensibility
 Introduction to extending Microsoft Power Platform Determine when to configure or when to code
 Introduction to developing with Microsoft Dataverse
 Microsoft Dataverse extensibility model
 Introduction to Dataverse for developers Event framework Extend plug-ins
 Introduction to client-side scripting
 Introduction to Plug-ins Upload scripts
 Plug-ins usage scenarios Event handlers
 Custom workflow extensions Context objects
 Plug-in execution context Performing common actions with client script Client scripting common tasks
 Introduction to conducting global operations with the client API Xrm object
 Client scripting best practices
 Automate business process flows with client script Debugging client script
 Introduction to Power Apps component framework
 Power Apps component framework architecture
 Power Apps component tooling
 Get started with Power Apps component framework Demo of Power Apps code component
 Introduction to creating a code component
 Create a code component solution package
 Build a Power Apps component Test and debug code components
 Use advanced features with Power Apps component framework
 Introduction to using React within a Power Apps component
 Use the formatting API in a Power Apps component
 Use the Microsoft Dataverse web API in a Power Apps component
 Write a pop-up Power Apps component Work with Dataverse Web API

- Introduction to the Microsoft Dataverse Web API
- Authenticate against Microsoft Dataverse by using OAuth
- Interact with Microsoft Dataverse Web API by using Postman
- Use OData to query data
- Use FetchXML to query data
- Call Power Automate actions from the Web API
- Use the Web API to impersonate another user
- Track entity data changes with change tracking and the Web API Integrate Dataverse Azure solutions
- Microsoft Dataverse Azure Solutions overview
- Expose Microsoft Dataverse data to Azure Service Bus
- Write a Service Bus Event Listener that consumes Microsoft Dataverse messages
- Publish Microsoft Dataverse events with webhooks
- Write an Azure Function that processes Microsoft Dataverse events

Test und Zertifizierung

Wichtige Information

Dieses Training behandelt prüfungsrelevante Themen zum Exam PL-400: Microsoft Power Platform Developer

HINWEIS:

Um während des Trainings an den Übungen teilnehmen zu können, ist eine Multi-Faktor-Authentifizierung (MFA) erforderlich. Dafür benötigen Sie ein Mobiltelefon und eine Authentifizierungs-App. Wir empfehlen die kostenlose Microsoft Mobile Phone Authenticator App.

Download Microsoft Mobile Phone Authenticator App.

Set up your Microsoft 365 sign-in for multi-factor authentication.

Kurstermine

Datum	Lokation	Time Zone	Sprache	Type	Durchführungsgarantie	PREIS
02 Jun 2025	Wien	CEDT	German	Instructor Led Online		€3,190.00
25 Aug 2025	Wien	CEDT	German	Instructor Led Online		€3,190.00
24 Nov 2025	Wien	CET	German	Instructor Led Online	Yes	€3,190.00

Zusätzliche Information

[Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.](#)