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 Sep 2024	Wien	CEDT	German	Instructor Led Online	Yes	€3,190.00
07 Oct 2024	Wien	CEDT	German	Instructor Led Online		€3,190.00
25 Nov 2024	Wien	CET	German	Classroom		€3,190.00
10 Mar 2025	Wien	CET	German	Instructor Led Online	Yes	€3,190.00
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.