PL-400: Microsoft Power Platform Developer

From September 19, 2022

Items in red are covered in the PL-100 and PL-200 exams, and are not covered in this course.

	Create a technical design (10–15%)
	Validate requirements and design technical architecture
1	Design and validate the technical architecture for a solution
2	Design authentication and authorization strategy
3	Determine whether you can meet requirements with out-of-the-box functionality
4	Determine when to use Logic Apps versus Power Automate flows
5	Determine when to use serverless computing, plug-ins, or Power Automate
6	Determine when to build a virtual table data source provider and when to use connectors
	Design solution components
7	Design a Microsoft Dataverse data model
8	Design Power Apps reusable components
9	Design custom connectors
10	Design server-side components
11	Determine when to extend business process flows by using server-side and client-side code or Power Automate
	Describe Microsoft Power Platform extensibility points
12	Describe Power Virtual Agents extensibility points including Bot Framework skills and Power Automate flows
13	Describe Power Apps portal extensibility points including CRUD APIs and custom styling
14	Describe Dataverse custom APIs and their uses
	Configure Microsoft Dataverse (10–15%)
	Configure security to support development
15	Troubleshoot operational security issues
16	Create or update security roles and column-level security profiles
17	Configure business units and teams
	Implement tables and columns
18	Configure tables and table options
19	Configure columns
20	Configure relationships and types of behaviors
	Implement application lifecycle management (ALM)
21	Create solutions and manage solution components
22	Import and export solutions
23	Manage solution dependencies
24	Implement source control for projects including solutions and code assets
25	Create and use environment variables
26	Describe how to use Package Deployer and associated tools to create a package
27	Describe application lifecycle management concepts

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	Create and configure Power Apps (5–10%)
	Create model-driven apps
28	Configure a model-driven app
29	Configure forms
30	Configure views
31	Configure commands and buttons
	Create canvas apps
32	Create and configure a canvas app or a custom page
33	Implement complex formulas to manage control events and properties
34	Build reusable component libraries
35	Test an app by using Test Studio
36	Embed an app in Microsoft Teams
	Manage and troubleshoot apps
37	Troubleshoot app issues by using Monitor and other browser-based debugging tools
38	Identify and resolve connector and API errors
39	Optimize app performance including pre-loading data and query delegation
	Configure business process automation (5–10%)
	Configure Power Automate
40	Build a cloud flow
41	Configure steps to use Dataverse connector actions and triggers
42	Implement complex expressions in flow steps
43	Implement error handling
	Implement processes
44	Create and configure business process flows
45	Create and configure business rules
46	Create, manage, and interact with business process flows by using server-side and client-side code
47	Troubleshoot processes
	Extend the user experience (15–20%)
	Apply business logic using client scripting
48	Create JavaScript or Typescript code that targets the Client API object model
49	Register an event handler
50	Create client-side scripts that target the Dataverse Web API
	Create a Power Apps Component Framework (PCF) component
51	Describe the code component lifecycle
52	Initialize a new code component
53	Configure a code component manifest
54	Implement component interfaces
55	Package, deploy, and consume a component
56	Configure and use Device, Utility, and WebAPI features

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	Create a command button function
57	Create a command function
58	Design command button rules and actions
59	Manage dependencies between JavaScript libraries
	Extend the platform (20–25%)
	Create a plug-in
60	Describe the plug-in execution pipeline
61	Design and develop a plug-in
62	Debug and troubleshoot a plug-in
63	Implement business logic by using pre-images and post-images
64	Perform operations on data by using the Organization service API
65	Optimize plug-in performance by configuring concurrency and transactions
66	Configure a Dataverse custom API message
67	Register custom assemblies by using the Plug-in Registration Tool
68	Develop a plug-in that targets a custom action message
	Create custom connectors
69	Create a definition for the API
70	Configure API security
71	Use policy templates to modify connector behavior at runtime
72	Create custom connectors for public APIs by using Postman
	Use platform APIs
73	Interact with data and processes by using the Dataverse Web API or the Organization Service
74	Implement API limit retry policies
75	Optimize for performance, concurrency, transactions, and batching
76	Perform authentication by using OAuth
	Process workloads
77	Process long-running operations by using Azure Functions
78	Configure scheduled and event-driven function triggers in Azure Functions
79	Authenticate to Microsoft Power Platform by using managed identities
	Develop Integrations (5–10%)
	Publish and consume Dataverse events
80	Publish an event by using the API
81	Publish an event by using the Plug-in Registration Tool
82	Register service endpoints including webhooks, Azure Service Bus, and Azure Event Hub
83	Implement a Dataverse listener for an Azure solution
84	Create an Azure Function that interacts with Microsoft Power Platform
	Implement data synchronization
85	Configure table change tracking
86	Read table change records by using platform APIs
87	Create and use alternate keys