

PL-500: Microsoft Power Automate RPA Developer

Candidates for this course automate time-consuming and repetitive tasks by using Microsoft Power Automate. They review solution requirements, create process documentation, and design, develop, troubleshoot, and evaluate solutions. Candidates work with business stakeholders to improve and automate business workflows. They collaborate with administrators to deploy solutions to production environments, and they support solutions.

Audience Profile

If you're a developer with a keen interest in providing automated solutions for your organization, this certification could be a great fit for you. You automate time-consuming and repetitive tasks by using Microsoft Power Automate. You review solution requirements, create process documentation, and design, develop, deploy, integrate, troubleshoot, and evaluate solutions. Working with business stakeholders, you help to improve and automate business workflows.

Prerequisites

Candidates should have experience with JSON, cloud flows and Azure services, integrating solutions with REST and SOAP services, analyzing data by using Microsoft Excel, VBScript, Visual Basic for Applications (VBA), HTML, JavaScript, one or more programming languages, and the Microsoft Power Platform suite of tools (AI Builder, Power Apps, Dataverse, and Power Virtual Agents).

Course Outline

01: Power Platform RPA Overview

Module 1: What is Microsoft Power Platform?

Module 2: Record and Analyze Processes

Module 3: Design Automations

Exercise: Setup your lab environment

Exercise: Use Process Advisor

02: Power Automate Cloud Flows

Module 1: Create and Manage Cloud Flows

Module 2: Flow Logic

Module 3: Advanced Flow Scenarios

Module 4: Deploy and Monitor

Exercise: Create your first flow

Exercise: Creating a manual flow and using expressions

03: Power Automate Desktop Flows

Module 1: Create and Manage Desktop Flows

Module 2: Desktop Flow Logic

Module 3: Automating Desktop Applications

Module 4: Automating Web Applications

Module 5: Advanced Flow Scenarios

Module 6: Deploy and Monitor

Exercise: Create and run a desktop flow - In this exercise, you'll create a flow that copies a selected folder and then adds information about the created backup in a Microsoft Excel file.

Exercise: Use logic with desktop flows

Exercise: Use the recorder to automate desktop applications - In this exercise, you'll automate a desktop-related task to get a better grasp of the recorder's functionality in desktop automation.

Exercise: Extract stocks from MSN - In this exercise, you'll create a flow that extracts gainer stocks from the MSN website and stores them in a new Excel worksheet.

Exercise: Exception handling

Exercise: Building Desktop Flows - In this lab, you will be creating two desktop flows. One to automate the funding Windows app and the other to automate the inspection website.

04: Use Desktop Flows from Cloud Flows

Module 1: Use Desktop Flows from Cloud Flows

Exercise: Design a solution -You will be working to implement the automation of a Construction Loan. In this lab, you will build cloud flows which integrate with the desktop flows.

05: Custom Connectors

Module 1: Create and configure custom connectors

Demo of the maker portal experience

Module 2: Use Policy Templates

Module 3: Implement Custom Code

Exercise: Custom Connectors - In this lab, you will build a custom connector for A Datum's Risk Score API.

Exercise: Integrate AI - In this lab, you will be using the AI Builder to process the construction funding request form document that was emailed to the funding shared mailbox to extract essential information. The extracted information will be stored in Dataverse for use in the funding process

06: Deploy and Manage Automations

Module 1: Configure machine groups and queues required for desktop flow automations

Module 2: Deploy to other environments

Module 3: Evaluate data loss prevention (DLP) policies for RPA execution

Module 4: Manage Access to Components

Exercise: Deploy

Exercise: Troubleshooting