Blue Prism Associate Developer

Course Description

Blue Prism Developer Certification is a comprehensive training program designed to equip individuals with the skills and knowledge needed to develop and maintain automated processes using Blue Prism, a leading Robotic Process Automation (RPA) tool.

The course covers a wide range of topics, including the setup and configuration of the Blue Prism environment, advanced data item handling and attribute matching, exception handling, and work queue management. Participants will also learn about business object design best practices, browser automation, and surface automation.

Audience

The Blue Prism Developer Certification course is aimed at individuals who are interested in developing automation solutions using the Blue Prism platform. The course is designed for software developers, automation engineers, and technical professionals who want to gain expertise in using Blue Prism for robotic process automation (RPA) solutions. Participants are expected to have a basic understanding of programming concepts and familiarity with Windows-based software.

Pre-requisite Knowledge/Skills

- It is expected that a minimum of 3 months supported experience is gained before sitting the Developer Certification exam.
- Completion of Blue Prism Associate Developer.
- Knowledge of at least one programming language such as C#, Java or Python
- Understanding of basic automation principles
- Familiarity with basic computer concepts and operating system navigation
- Basic understanding of Microsoft Excel and other Microsoft Office application

Course Objectives

Upon completion of the course, participants should be able to:

- Understand the Blue Prism development lifecycle, tools, and techniques.
- Develop Blue Prism automations using best practices and design patterns.
- Utilize advanced data item types and attribute matching techniques to handle complex data scenarios.
- Implement effective exception handling and work queue management techniques.
- Understand the Blue Prism framework and use it to design, build, test, and manage processes.
- Design and develop efficient and scalable business objects.
- Automate web applications using the Blue Prism browser extension.
- Automate desktop applications using surface automation techniques.

Course Outline

The course comprises 40-hours of theory and labs. It's divided into 8 different modules.

Module	Module Name	Topics Covered	Labs Included
1	Ready, Set, Automate!	Setting Up Your Training Environment, Screen Resolution and Scaling, Configuration Best Practices	Setup Environment
2	Self-Paced Learning and Discussions	Process Templates, Credentials and Credential Management, Advanced Data Items, Next Steps	Explore Process Template
3	Advanced Data Mastery	Introduction and Setup, Collections, Data Item Initialization, Data Item Exposure, Data Casting, Overview of Attributes, Attribute Match Type, Dynamic Attribute Matching, Attribute Matching Strategy, Data Validation	Advanced Data Items and Attribute Matching Exercise
4	Exceptional Handling and Work Queues	Avoiding Common Exception Handling Loops, Types of Infinite Loops, Nested Retry Loops, Scenarios, Key Features of Work Queues, Encrypting Data in Work Queues, Best Practices for Resolution, Complex Work Queue Design, Managing Active Queues	Process Templates 1 and Process Templates 2
5	Process Delivery Roadmap	Blue Prism Framework, Defining Processes, Designing Processes, Building and Testing, Process Management, Initial Setup Checklist, Initial Build Process, Exception Handling, Process Design, Testing Processes, Production Readiness	Process Delivery Roadmap Review and Design a Process
6	Mastering Business Objects	Key Terms to Know, Single Object Design Approach, Multi-Object Design Approach, Efficient, Scalable and Reusable Object Layer, 5 Golden Rules, Process Building and Debugging	Single Object Design, Multi-Object Design
7	Modern Browser Automation	Blue Prism Browser Extension, Session Initialization, integrating with the Browser, Application Modeler Attributes, Interacting with HTML Elements, Advanced	Browser Automation Exercise

		Topics, and Techniques, V6.9+ Training Addendum	
8	Streamlined Surface Automation	Introduction to Surface Automation, Using Regions, Data Inputs with Surface Automation, Data Outputs with Surface Automation, Synchronization	Surface Automation Exercises, Advanced Consolidated Exercise