

# Blue Prism Professional Developer

## Course Description

The Blue Prism RPA Training Program is a comprehensive training course that provides learners with the essential skills and knowledge needed to design and implement automation processes using Blue Prism, a leading RPA tool. The program covers modules such as advanced exceptional handling, work queues, business object design, surface automation, browser automation, Java automation, and mainframe automation. Through hands-on exercises and labs, learners will learn how to handle and resolve exceptions, avoid common exception handling loops, design complex work queues, develop an efficient, scalable, and reusable object layer, use regions, data inputs, and synchronization for streamlined automation, integrate with the Blue Prism browser extension, initialize sessions, interact with HTML elements, interface with Java applications, use SpyMode, and interface with vendor tools. Upon completion of the training, learners will have the necessary expertise to design and implement complex automation processes in a business environment.

## Audience

The Blue Prism RPA Training Program is designed for individuals who are interested in acquiring the skills and knowledge required to design and implement automation processes using Blue Prism, a leading RPA tool. The course is ideal for business analysts, developers, project managers, and IT professionals who are responsible for automating business processes in their organization. Learners should have basic programming skills and some understanding of RPA concepts to get the most out of the program. The course is also suitable for anyone looking to improve their automation skills and advance their career in the RPA industry.

## Pre-requisite Knowledge/Skills

Prerequisites:

- Pass the Blue Prism Developer exam and gain hands-on experience for at least six months
- Completion of all modules within the Blue Prism Professional Developer Learning Plan
- Basic programming skills
- Fundamental understanding of RPA concepts
- Familiarity with programming languages such as Java or Python
- Basic knowledge of software development processes
- Comfortable with using computers and software applications

Skills required:

- Strong analytical skills
- Attention to detail
- Problem-solving skills

- Effective communication skills, both written and verbal
- Ability to communicate technical information to various stakeholders within an organization
- Self-motivated and able to work independently and in a team environment

## Course Objectives

Upon completion of the program, learners will be able to:

- Understand and apply advanced exceptional handling techniques
- Avoid common exception handling loops and nested retry loops
- Design and implement efficient, scalable, and reusable object layers
- Use regions, data inputs, and synchronization for streamlined surface automation
- Integrate with the Blue Prism browser extension and interact with HTML elements
- Interface with Java applications and use SpyMode for mainframe automation
- Design and implement complex work queues
- Manage active queues and encrypt data in work queues
- Troubleshoot issues related to Java and mainframe automation
- Apply best practices for resolution in automation processes

## Course Outline

The course comprises 48-hours of theory and labs. It's divided into 8 different modules.

Module	Module Name	Topics Covered	Labs Included
1	Introduction to Robotic Process Automation with Blue Prism	RPA (Robotic Process Automation), Digital Workforce, Blue Prism Vision, Automation, Monitoring	Watch it work
2	Setup and Configuration	Training Environment, Screen resolution, Scaling, Configuration	Setup environment
3	Advance Exceptional Handling and Advance 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

4	Business Object Design Best Practice	Learn the Key Terms, Single Object Design Approach, Efficient-Scalable-Reusable Object Layer, 5 Golden Rules	Single Object Design Approach, Multi Object Design Approach
5	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
6	Modern Browser Automation	Blue Prism Browser Extension, Session Initialization, integrating with the Browser, Application Modeler Attributes, Interacting with HTML Elements, Advanced Topics, and Techniques, V6.9+ Training Addendum	Browser Automation Exercise
7	Java Automation	Installation and General Mitigation, Interfacing with Java Application, Troubleshooting	Java Automation
8	Mainframe Automation	Use the SpyMode, Vendor : IBM, MicroFocus, Rocket, OpenText, Ericom, DN-computing,	Mainframe Automation Guides