



UiPath RPA Design and Development v4

Course Description

The Robotic Process Automation (RPA) Design & Development course provides comprehensive knowledge and skills for developing and deploying software robots. This course assumes no prior knowledge of RPA and covers basic concepts, key strategies, and methodologies in the context of UiPath products. Students will learn to design and develop robots for defined processes and prepare for the UiPath RPA Associate v1.0 Exam.

Audience

This course is suitable for industry professionals and university engineering students who want to acquire the skills of designing and developing robots for process automation.

Pre-requisite Knowledge/Skills

Students should have basic programming skills to understand and complete the course successfully.

Course Objectives

Upon successful completion of this course, students will be able to:

- Prepare to become Junior RPA Developers
- Understand the basic concepts of Robotic Process Automation
- Gain familiarity and deep understanding of UiPath tools
- Design and create robots for business processes independently
- Develop the skills required to pass the UiPath RPA Associate v1.0 Exam

Course Outline

The course comprises 64-hours of theory and labs. It's divided into 8 different modules.

Lesson 1: Robotic Process Automation Basics

- Introduction to Robotic Process Automation (RPA)
- Benefits and applications of RPA
- RPA lifecycle and key components
- Understanding the role of software robots in process automation

Lesson 2: Introduction to UiPath

- Overview of UiPath platform and its features

- UiPath Studio: User interface and tools
- Creating a new project in UiPath
- Managing workflows and activities in UiPath

Lesson 3: Variables and Arguments

- Introduction to variables and data types in UiPath
- Working with variables and assigning values
- Using arguments to pass data between workflows
- Variable scope and lifetime in UiPath
- Handling exceptions and error handling

Lesson 4: Selectors

- Understanding selectors and their importance in automation
- Using UiPath Explorer to identify UI elements
- Working with dynamic selectors
- Strategies for reliable and robust automation using selectors

Lesson 5: Control Flow

- Control flow activities in UiPath
- Conditional statements (If, Switch) and loops (For, While)
- Error handling and exception handling
- Flowcharts and state machines in UiPath

Lesson 6: Data Manipulation

- Reading and writing data from different sources in UiPath
- Working with Excel and CSV files
- Text manipulation and regular expressions
- Database operations in UiPath

Lesson 7: Automation Concepts and Techniques

- Best practices for designing and developing robots
- Automating web applications and browser automation
- Screen scraping and OCR (Optical Character Recognition)
- Debugging and troubleshooting automation workflows

Lesson 8: Orchestrator

- Introduction to UiPath Orchestrator
- Managing robot deployments and schedules
- Monitoring and logging robot activities
- Orchestrator queues and asset management