

RPA Certification Training using UiPath

[Course Curriculum : Your 9 module Learning Plan](#)

About LERNVE

Lernve is a premier e-learning platform that delivers dynamic, live instructor-led online training experiences. Our platform caters to a diverse audience, including professionals and students worldwide, offering courses in prominent categories such as Big Data & Hadoop, Business Analytics, NoSQL Databases, Java and mobile Technologies, System Engineering, Project Management, and Programming.

We take pride in providing a seamless and cost-effective learning solution that is easily accessible to millions of eager learners. Our global reach extends to countries such as the United States, India, the United Kingdom, Canada, Singapore, Australia, the Middle East, Brazil, and beyond, creating a vibrant community of over 1 million learners worldwide. Join us on the knowledge and skill development journey, as we bring education to your fingertips.

About Course

UiPath RPA Certification Training by Lernve:

- Prepare for UiPath's RPA Developer Advanced Certification exam.
- Gain expertise in key RPA concepts.
- Learn Image and Text automation techniques.
- Explore Computer Vision activity for enhanced automation.
- Master Object Repository for efficient automation development.
- Acquire skills in Data Manipulation using RPA bots.
- Understand process management using UiPath Orchestrator.
- Build solutions using the REFramework.
- Hands-on experience with real-life industry use cases.
- Drive RPA initiatives within your organization.
- Online, instructor-led training for a comprehensive learning experience.
- Enroll now to kickstart your RPA journey!

RPA Training Curriculum

Introduction to Robotic Process Automation

Goal: In this module, you will learn about the evolution and future of Robotic Process Automation. You will also learn how Robotic Process Automation works and its components.

Objectives:

In this module, you will:

- Understand the emergence of Robotic Process Automation (RPA) and its future scope
- Learn the concepts of RPA and distinguish it from Automation
- Understand the types of Bots
- Discuss how RPA works
- Gain insights into the RPA development methodology and identify its application areas
- Get an overview of the relevant RPA tools and their selection criteria

Outcomes:

After completing this module, you should be able to:

- Comprehend the necessity of RPA
- Distinguish between different types of bots in RPA
- Get acquainted with different types of tools used in RPA

Topics:

- Emergence of Robotic Process Automation (RPA)
- Evolution of RPA
- Future of RPA
- Differentiating RPA from Automation

- Defining Robotic Process Automation & its benefits
- What RPA is Not
- Types of Bots
- How Robotic Process Automation works
- RPA development methodology and key considerations
- Application areas of RPA
- List of Robotic Process Automation Tools

Hands On:

- Demonstrate a typical automation process by developing a process using UiPath to identify elements from Lernve's website related to a course search and store the results of the search in a local file.
- Discuss a real-world implementation use case of RPA where involving a large telecommunication and media company. Examine how its critical business processes are automated with the help of UiPath and the benefits achieved by this automation.

Process Components and Activities

Goal: In this module, you will understand the main components of a process namely variables, arguments and activities. You will learn activities related to UI Automation, System activities and various User Events.

Objectives:

In this module, you will:

- Identify key UI Elements required for automation
- Know what UI Automation is and the activities involved in it
- Learn System Activities and implement its features in your workflow
- Create and manage variables in your workflow
- Create and import arguments from different workflows

- Use Import Panel to add or edit your arguments
- Perform User Event activities to create triggers

Outcomes:

After completing this module, you should be able to:

- Perform UI Automation activities on different UI Elements
- Automate browser activities, such as opening and typing into a field
- Perform click, type into and various element activities

Topics:

- UI Automation Activities
- System Activities
- Variables
- Arguments
- Imports Panel
- User Events

Hands On:

- Build a process in UiPath using UI Automation Activities
- Create an automation process using key System Activities
- Using Variables and Arguments
- Automation using System Trigger

Overview of UiPath

Goal: In this module, you will learn about the features and layout of UiPath Studio.

Objectives:

In this module, you will:

- Understand what is UiPath and its platform components
- Install and activate UiPath Community Edition Software
- Get an overview on the types of Projects and Templates in UiPath
- Get familiarized with the components of the user interface
- Know the usage of Activities Panel and identify different categories Automation Activities
- Understand the types of workflows

Outcomes:

After completing this module, you should be able to:

- Create your own sequence
- Identify different components of UiPath Studio
- Get an overview of user interface and domain activities in UiPath
- Use different types of workflows

Topics:

- Introduction to UiPath platform and its components
- Installation details of UiPath's Community Edition
- Types of Templates
- User Interface
- Domains in Activities
- Workflow Files in UiPath

Hands On:

- Setup and Configure UiPath Studio
- Understand the user interface of UiPath Studio
- Create a Sequence to obtain user inputs, display them using a message box
- Create a Flowchart to navigate to a desired page based on a condition

- Create a State Machine workflow to compare user input with a random number

Data Manipulation & PDF Automation

Goal: In this module, you will learn about Data Manipulation, virtual machines, Citrix, text, image and PDF Automation.

Objectives:

In this module, you will:

- Create and reuse elements from your object repository
- Manipulate Scalar, Collection & Table Data
- Get an overview of Native Citrix Automation feature of UiPath
- Understand how Text and Image Automation works
- Install and use PDF activities package
- Perform PDF Automation
- Use Computer Vision activity to identify UI Elements

Outcomes:

After completing this module, you should be able to:

- Manipulate your data
- Extract text from PDF files
- Perform Image automation

Topics:

- Object Repository
- Data Manipulation
- Automation of Virtual Machines
- Introduction to Native Citrix Automation

- Text and Image Automation
- PDF Automation
- Computer Vision

Hands On:

- Data manipulation in the workbook
- PDF Data Extraction

App Integration, Recording and Scraping

Goal: In this module, you will learn about Recording, Scraping Data and integrate these activities with the corresponding apps.

Objectives:

In this module, you will:

- Perform App Integration activities, such as Excel and Mail
- Record your mouse and keyboard actions
- Implement or edit Selectors of activities
- Get familiar with UI Explorer
- Scrape data from websites
- Use different types of Recording and Scraping methods

Outcomes:

After completing this module, you should be able to:

- Collect data from different websites by using data scraping
- Perform different operations on different apps using App Integration
- Use Excel and Mail Activities

Topics:

- App Integration
- Recording
- Scraping
- Selector
- Workflow Activities

Hands On:

- Automate login to your (web)Email account
- Recording mouse and keyboard actions to perform an operation
- Scraping data from website and writing to CSV

Programming, Debugging and Logging

Goal: In this module, you will learn about Programming in UiPath, organizing projects, debugging projects and handling exceptions.

Objectives:

In this module, you will:

- Use Programming Activities
- Perform Debugging of UiPath Projects
- Manage and use logs in UiPath
- Understand Error Handling in UiPath processes
- Perform automation in third-party applications using available UiPath Extensions
- Understand Project Organization and its best practices

Outcomes:

After completing this module, you should be able to:

- Execute conditional clauses
- Monitor your workflow with debug activity
- Implement message logs to keep track of your workflow
- Amend your errors in the workflow

Topics:

- Programming
- Debugging
- Error Handling
- Logging
- Extensions
- Project Organization

Hands On:

- Using Programming Activities in UiPath
- Debugging errors in a UiPath Project
- Different ways of Error Handling in UiPath
- Browse through the log files related to UiPath Project

Orchestrator Community Edition and Other RPA Tools

Goal: In this module, you will learn about Orchestrator Community Edition (CE) and other leading RPA tools.

Objectives:

In this module, you will:

- Know the capabilities of UiPath Orchestrator
- Use Orchestrator Activities from UiPath Studio

- Login to the Orchestrator Community Edition
- Understand the different components of Orchestrator Community Edition
- Create & Manage Robots, Processes, Jobs, Schedules & Assets from the Orchestrator Community Edition
- Learn about the different RPA tools available in the market

Outcomes:

After completing this module, you should be able to:

- Implement various features of orchestrator
- Register your local machine to orchestrator
- Connect your bot with the local machine

Topics:

- UiPath Orchestrator Overview
- Orchestrator activities
 - Introduction to Orchestrator CE
- Orchestrator CE
- Other RPA tools

Hands On:

- Using various components of Orchestrator
- Create an automated Gmail Login application
 - Create an automated Remote Data Entry application

Implementing REFramework

Goal: In this module, you will learn how to use the REFramework template in UiPath for creating

business processes and understand the various components involved in it.

Objectives:

In this module, you will:

- Know the purpose of REFramework
- Understand the framework component functions
- Use the state machine layout and its states
- Apply the workflows available at different states
- Implement exception handling and logging at different states
- Develop a process using the REFramework using the common development rules

Outcomes:

After completing this module, you should be able to:

- Develop your own framework
- Use various activities from different domains to execute your workflow
- Effectively use message logs and debugging activities to monitor your workflow

Topics:

- Introduction to REFramework
- About REFramework
- Purpose of REFramework
- Using State Machine Layout
- States of the State Machine
- Workflows Involved
- Workflows of the Framework
- Exception Handling & Logging
- Rules of Developing a Process using REFramework

Hands On:

- Build a business process based on REFramework and utilizing various components of this framework such as its workflows, states, variables and exceptions

Overview of UiPath Products (Self-Paced)

Goal: In this module, you will get an overview on different products such as App Studio, AI Fabric, etc. and learn how to use them with your workflows.

Objectives:

In this module, you will:

- Explore UiPath Marketplace and import packages in your workflow
- Create a small application using UiPath Apps Studio
- Enable AI Fabric and use ML packages in your workflow
- Get an overview of Task capture and Automation Hub

Outcomes:

After completing this module, you should be able to:

- Import packages from Marketplace to your workflow
- Use packages offered by AI Fabric
- Develop applications that can be used with your workflow

Topics:

- Marketplace
- Apps
- AI Fabric
 - Task capture
- Automation Hub

Hands On:

- Develop complex automation processes with the help of components offered by Marketplace
- Develop an application using UiPath Apps Studio

Projects

Which projects will be a part of this RPA with UiPath Course?

Project 1: Candidate Onboarding

Problem Statement – Candidate onboarding process involves tracking candidate's mandatory joining documents, sending them timely reminders, and handling other tasks. Once all the documents are received, then the candidate needs to be sent a formal joining email asking him to join the company.

We will build a workflow that will automate these entire processes using UiPath. To achieve this, we will perform the following:

- Create a transactional workflow
- Collecting candidate data using Web Recording
- Operations on the candidate data using Excel activities
- Send automated emails for verification and onboarding purposes
- Publish the project to UiPath Orchestrator

This is an ongoing project throughout the course designed to implement the concepts as you learn.

Project 2: GST Verification

Problem Statement – You work in the Risk and Compliance Department for a large trading organization. As a part of the job, it is required to determine the validity of the GST number from GST invoices to verify the details of the vendors who are empaneled in your organization and save these details in a text file.

Your team has planned to build an automation workflow to verify GST details. To design the workflow, you will perform the following:

- Use REFramework template for this project
- Read vendor data from Orchestrator Queues
- UI automation on the given resource for verification

- Write the details on a text file
- Publish the project to UiPath Orchestrator to manage the process and execute with the help of bots

What are the system requirements for this course?

Your system should have a minimum of 4GB of RAM, a Dual-Core processor, a Windows 7 operating system, and a display resolution of 1024x768.

CPU:

- Minimum Requirement – Dual Core 1.8GHz 32-bit (x86)
- Recommended – Quad Core 2.4GHz 64-bit (x64)

RAM:

- 4GB (Recommended 8 Gb)

Operating System:

- Minimum Version – Windows 7
- Maximum Version – Windows 10

.Net Framework:

- Minimum version - 4.6.1

For Mac users:

- You can use a Virtualization software like Virtual Box or VMware to install Windows as a virtual machine and run the UiPath Studio on it.

How will I execute the practicals?

- All the Demo/Hands-on of UiPath are to be executed on Latest version (Stable) of UiPath Studio Community Edition.
- The instructor will help you in setting up the tool in the live class. In case you come across any doubt, the 24*7 support team will promptly assist you.