



# RPA Advanced Design and Development V1.0

## Course Description

### Overview

The Robotic Process Automation (RPA) Advanced Design and Development course aims at providing a deep understanding and extensive hands-on experience on UiPath technologies such as Studio, Robots, and Orchestrator. It prepares the student to independently build or lead production level automation and complex RPA solutions in the Robotic Enterprise Framework. The course should be delivered in an instructor-led training environment. It has a 20-hour theory component and an associated lab component followed by 20-hours of Project work. The course is based on UiPath Studio version 2019.10.

### Audience

The target audience for the UiPath Advanced RPA Developer course is:

- RPA Developers
- Individuals in roles requiring RPA Developer expertise such as RPA Architects, Solution Designers, RPA Engineers, Solution Architects, Process Automation Architects, etc.

### Pre-requisite Knowledge/Skills

To understand and complete the course successfully, the student should have completed:

- UiPath Academy Training:
  - RPA Starter course
  - RPA Developer Foundation Learning Plan
  - Automation Version Control Systems course
- OR –
- UiPath Academic Alliance Robotic Process Automation Design & Development V2.0 course taught at universities and other organizations

### Course Objectives

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

- Build an end-to-end process development
- Perform UiPath code reviews
- Provide REFramework project support
- Create and review project specifications

#### Course:

Robotic Process Automation  
Advanced Design & Development

#### Delivery Method

Instructor-Led

#### Course Duration

40 Hours



- Debug and fix bugs
- Add features to the existing automation processes

## Course Outline

The 20-hour Theory course is divided into 9 lessons:

Lesson 1: Project Organization, Debugging, and Error Handling

Lesson 2: Input Activities and Input Methods

Lesson 3: UI Synchronization Activities

Lesson 4: Excel, PDF, and Email

Lesson 5: Structured Data and Extraction Wizard

Lesson 6: Selectors

Lesson 7: Utilizing External Code

Lesson 8: Orchestrator

Lesson 9: Robotic Enterprise Framework

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## Labs

The Lab component of the course consists of exercises mapped to the Theory portion. Each exercise helps the student practice and apply the skills learned in the Theory section of the course.

## Project

The course comes with two projects. Each project will allow the students to apply all the skills and knowledge acquired during the course. Each project comes with its PDD, SDD, DSD and associated files. Project 1 also comes with Slides and is designed for classroom delivery. Project 2 does not have slides and should be given as a practice exercise for the students.

## Classroom Requirements

Following are the class requirements for the course:

- Student-Teacher ratio of 12:1
- Projector and whiteboard
- MS office on each student computer
- Access to the internet for students and Instructor