

Exploring RPA | Robotic Process Automation

Gain the Skills & Tooling Experience Required to Leverage Automating Business Processes using Software Bots

Course Snapshot

- **Course: Exploring RPA | Robotic Process Automation (TTML6903)**
- **Duration:** 3 days
- **Skill-level:** Foundation-level development skills. This is not a basic class.
- **Hands-on Learning:** This course is approximately 50% hands-on lab to lecture ratio, combining engaging expert lessons, demos and group discussions with real-world, skills-focused machine-based labs and exercises. Student machines are required.
- **Delivery Options:** This course is available for **onsite private classroom presentation, live online virtual presentation**, or can be presented in a **blended learning format**. Please also ask about our **Self-Paced / Video / QuickSkills** or **Mini-Camp / Short Course** flexible delivery options.
- **Public Schedule:** This course has active dates on our live-online open enrollment **Public Schedule**.
- **Customizable:** This course agenda, topics and labs can be further adjusted to target your specific training skills objectives, tools and learning goals. Please ask for details.

Overview

Robotic Process Automation (RPA) enables automating business processes using software robots. Software robots interpret, trigger responses, and communicate with other systems just like humans do. Robotic processes and intelligent automation tools can help businesses improve the effectiveness of services faster and at a lower cost than current methods.

Exploring RPA | Robotic Process Automation is a lab intensive, hands-on course that provides participants with an excellent foundation for their automation journey, with a special focus on one of the most popular RPA tools: UiPath. Robotic Process Automation takes you on a journey from understanding the basics of RPA to advanced implementation techniques. You will become oriented in the UiPath interface and learn about its workflow. Once you are familiar with the environment, we will get hands-on with automating different applications such as Excel, SAP, Windows and web applications, screen and web scraping, working with user events, as well as understanding exceptions and debugging. By the end of the course, you'll not only be able to build your first software bot, but also, you'll wire it to perform various automation tasks with the help of best practices for bot deployment.

Learning Objectives

This “skills-centric” course is about **50% hands-on lab and 50% lecture**, with extensive practical exercises designed to reinforce fundamental skills, concepts and best practices taught throughout the course. Working in a hands-on learning environment, led by our Automation Learning expert instructor, students will explore:

- Robotic Process Automation and its impact on the modern world
- How to design, test, and perform enterprise automation task with UiPath
- How to create Automation apps and deploy them to all the computers in your department.
- Robotic Process Automation technology
- UiPath programming techniques to deploy robot configurations
- Various data extraction techniques
- Integrations with various popular applications such as SAP and MS Office
- Debugging a programmed robot including logging and exception handling
- Maintaining code version and source control
- How to deploy and control Bots with UiPath Orchestrator

Audience & Pre-Requisites

This course is geared for attendees with Intermediate development skills (in any modern language) who wish to learn Robotic Process Automation and to perform a wide range of RPA tasks with minimal cost and maximum ROI.

Pre-Requisites: Students should have

- Basic to Intermediate IT Skills. Attendees without a programming background like Python may view labs as follow along exercises or team with others to complete them.
- Good foundational mathematics or logic skills
- Basic Linux skills, including familiarity with command-line options such as ls, cd, cp, and su

Take Before: We recommend attendees have the skills in the course(s) listed below, or attend them as a pre-requisite:

- TTPS4800 Introduction to Python Programming Basics

Take Next / Follow-on Courses: This course is a core component of our **AI, Machine Learning & Deep Learning Skills Path**, designed to trainer participants of all skill levels in modern AI, Machine Learning and Analytics skills across the enterprise. We offer courses in next level AI and Machine Learning, Deep Learning, Natural Language Processing, Applied Machine Learning (Chatbots, Intelligent Web) and many more related titles. Please contact us for details and next step recommendations based on your specific roles and goals.

Enhanced Learning Services: Please also ask about our **Pre-Training Class OnRamp & Prep / Primer offerings, Skills Gap Assessment Services, Case Studies, Knowledge Check Quizzes, Skills Immersion Programs & Camps, Collaborative Mentoring Services and Extended Learning Support & Post Training services.**

Course Topics / Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We will work with you to tune this course and level of coverage to target the skills you need most. Course agenda, topics and labs are subject to adjust during live delivery in response to student skill level, interests and participation.

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| <p>1. What is Robotic Process Automation?</p> <ul style="list-style-type: none"> • Scope and techniques of automation • Robotic process automation • About UiPath • The future of automation | <ul style="list-style-type: none"> • Collections • Arguments – Purpose and use • Data table usage with examples • Clipboard management • File operation with step-by-step example • CSV/Excel to data table and vice versa (with a step-by-step example) | <ul style="list-style-type: none"> • Java plugin • Citrix automation • Mail plugin • PDF plugin • Web integration • Excel and Word plugins • Credential management • Extensions – Java, Chrome, Firefox, and Silverlight |
| <p>2. Record and Play</p> <ul style="list-style-type: none"> • UiPath stack • Downloading and installing UiPath Studio • Learning UiPath Studio • Task recorder • Step-by-step examples using the recorder | <p>5. Taking Control of the Controls</p> <ul style="list-style-type: none"> • Finding and attaching windows • Finding the control • Techniques for waiting for a control • Act on controls – mouse and keyboard activities • Working with UiExplorer • Handling events • Revisit recorder • Screen Scraping • When to use OCR • Types of OCR available • How to use OCR • Avoiding typical failure points | <p>7. Handling User Events and Assistant Bots</p> <ul style="list-style-type: none"> • What are assistant bots? • Monitoring system event triggers • Monitoring image and element triggers • Launching an assistant bot on a keyboard event |
| <p>3. Sequence, Flowchart, and Control Flow</p> <ul style="list-style-type: none"> • Sequencing the workflow • Activities • Control flow, various types of loops, and decision making • Step-by-step example using Sequence and Flowchart • Step-by-step example using Sequence and Control flow | <p>6. Tame that Application with Plugins and Extensions</p> <ul style="list-style-type: none"> • Terminal plugin • SAP automation | <p>8. Exception Handling, Debugging, and Logging</p> <ul style="list-style-type: none"> • Exception handling • Common exceptions and ways to handle them • Logging and taking screenshots • Debugging techniques • Collecting crash dumps • Error reporting |
| <p>4. Data Manipulation</p> <ul style="list-style-type: none"> • Variables and scope | | |

9. Managing and Maintaining the Code

- Project organization
- Nesting workflows
- Reusability of workflows
- Commenting techniques
- State Machine
- When to use Flowcharts, State

- Machines, or Sequences
- Using config files and examples of a config file
 - Integrating a TFS server

10. Deploying and Maintaining the Bot

- Publishing using publish utility
- Overview of Orchestration Server

- Using Orchestration Server to control bots
- Using Orchestration Server to deploy bots
- License management
- Publishing and managing updates

Student Materials & Lab Environment

All course software (limited versions, for course use only), digital courseware files or course notes, labs / data sets and solutions (as applicable) are provided for you in our “easy access / no install required” high-speed remote lab environment. Our tech team works with every student to ensure everyone is set up with working access and ready to go prior to every course start date, ensuring a smooth delivery and great hands-on experience. Please ask for details.

For More Information

All courses can be presented **onsite** or **online**, or in a **combined / flex / blended learning format**, tailored to target your specific audience, needs and learning goals. We also offer focused, flexible **short courses, self-paced learning options, recorded sessions** and more. We train beginner to advanced skills in all areas we cover, and offer **New Hire / Cohort Training, Boot Camps, Skills Immersion Programs, Reskilling Programs, Skills Migration & Transition Programs**, and more. We collaborate with you to ensure all courses are truly targeted to meet your specific needs and learning skills, maximizing your valuable training time, as well as your important budget.

Please also visit our extensive **Public Training Schedule** for training for smaller groups or individuals. Please contact us for course details, **Corporate Rates** and **Special Discount Offers**.

For more information about our dedicated training services, collaborative coaching services, courseware licensing options, public course schedule, training management services, partner programs, or to see our complete list of course offerings and special offers please visit us at www.triveratech.com, email Info@triveratech.com or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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