

Automation with Intelligent Tools

SOA: Self-Learning Systems

Description

This course introduces Robotic Process Automation (RPA) using UiPath, a leading RPA platform. You will learn to design, develop, and deploy RPA solutions to automate repetitive tasks, optimize business processes, and support digital transformation. Topics include RPA fundamentals, Intelligent Process Automation (IPA), cognitive RPA, and AI applications.

Through hands-on exercises and case studies, you will gain practical experience creating automation workflows in UiPath Studio and developing virtual workers for data manipulation, analysis, and processing. By the end of the course, you will have the skills to effectively implement RPA solutions and drive efficiency, productivity, and innovation in your organization.

Who is this Course For?

This training is relevant to IT Centric Job roles that require Automation, e.g. automation specialist, computer vision asst engineer, robotics engineer, etc.

Course Objectives

By the end of this course, learners will be able to:

- Examine business drivers and application areas of IPA, including RPA, cognitive RPA, and AI.
- Manage IPA projects using quality assurance, system debugging, and project management techniques.
- Create automation applications to integrate between multiple systems.
- Build virtual workers for data manipulation, analysis, and processing.
- Develop automation solutions using remote enterprise applications.
- Extract data and images from documents (e.g., invoices) using data processing techniques.
- Design digital virtual assistants with open-source IPA tools and conversational bots.
- Create cost-effective business automation applications using AI tools.
- Deploy enterprise-scale automation applications with enterprise methodologies and tools.

Course Duration

16 Hours

Course Reference No.

TGS-2023021096

Mode of Training

Classroom

Funding Validity

Till 16 May 2027

Full Fee \$450

(Subject to 9% GST)

Pricing	Funding	Nett Fee (After GST)
SME OR SINGAPOREAN AGE 40 AND ABOVE	70%	\$175.50
NON-SME OR SINGAPOREAN AGE 21 TO 39 OR PR	50%	\$265.50
Subsidies available: SFC, SFEC, UTAP & PSEA		

As pre-requisites may differ by course, we strongly encourage you to review the details and contact us for any clarification.



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Course Content

Learning Unit 1: Introduction to Automation and Project Management Techniques

- Understanding business drivers and main application areas of IPA
- Overview of robotic process automation (RPA), cognitive RPA, and artificial intelligence (AI)
- Exploring the benefits and limitations of RPA
- Understanding the role of RPA in digital transformation
- Understanding the automation project lifecycle

Learning Unit 2: Business Tools for Automation

- Understanding Pros and Cons of various Enterprise Tools for Automation
- Introduction to UiPath – The Leader in the Automation Segment
- Understanding the components of UiPath
- Why is UiPath suited for organizations?
- Use Cases of UiPath in various verticals

Learning Unit 3: Automation using UiPath Studio – Part 1

- Understanding pre-built actions in UiPath
- Understanding variables, data types, decision making and control flow in UiPath
- Introduction to Recordings in UiPath
- Creating virtual workers for Data Processing and Management in UiPath
- Extracting Data from the Web
- Automation using Excel Files
- Automation with Emails

Learning Unit 4: Automation using UiPath Studio – Part 2

- Understanding the role of AI in RPA
- Leveraging AI tools such as natural language processing (NLP) and machine learning (ML) in RPA
- Creating virtual workers for Image Extraction in UiPath
- Automation using PDF Files – Extracting Information using OCR
- Debugging and error handling in UiPath

Learning Unit 5: UiPath Deployment and Security

- Understanding UiPath deployment options, including attended and unattended robots
- Understanding the UiPath Orchestrator
- Configuring UiPath robot settings for optimal performance
- Securing UiPath workflows and credentials
- Managing version control and source code with UiPath

