WSQ Automation with Intelligent Tools

COURSE DURATION
16 Hrs

COURSE REFERENCE NO.
TGS-2023021096

MODE OF TRAINING
Classroom

FUNDING VALIDITY
Till 16 May 2027

 Robotic Process Automation (RPA) has emerged as a powerful tool for automating repetitive tasks and optimizing business processes. In this course, you will delve into the world of RPA using UiPath, a leading RPA platform. You will learn how to design, develop, and deploy RPA solutions to optimize business processes and drive digital transformation. The course will start with an introduction to RPA and its business drivers, including an overview of Intelligent Process Automation (IPA), cognitive RPA, and artificial intelligence (AI). You will explore the main application areas of RPA and understand how it can significantly impact industries. You will learn how to create automation applications using UiPath Studio and develop virtual workers for data manipulation, analysis, and data processing tasks. Throughout the course, you will engage in hands-on exercises, case studies, and practical activities to apply the concepts learned and gain real-world experience in designing and implementing RPA solutions using UiPath. By the end of the course, you will be equipped with the skills and knowledge to effectively use UiPath for RPA and contribute to the automation initiatives in your organization, driving efficiency, productivity, and innovation.

Course Objectives

By the end of this course, learners will be able to:
*   Examine business drivers and main application areas of IPA through the overview of robotic process automation (RPA), cognitive RPA, and artificial intelligence (AI).
*   Manage IPA projects with Quality assurance and system debugging and (IPA) project management techniques
*   Create automation applications as an integration tool between applications with the help of tooling tutorials
*   Create virtual workers for data manipulation and analysis
*   Construct automation applications using remote enterprise applications software
*   Construct virtual workers for data processing and image extraction from documents such as supplier invoice using Data processing and management techniques
*   Develop digital virtual assistants using open-source IPA tools and conversational software robots.
*   Create cost effective business automation applications using AI Tools
*   Implement enterprise-scale automation applications using enterprise deployment methodology and tools
*   Examine industrial IPA use cases

FULL FEE
$450
(Subject to 9% GST)

NETT FEE AFTER FUNDING
$175.50
SME OR Singaporean age 40 and above (Subject to 9% GST)
70% Course Fee Funded

$265.50
Non-SME OR Singaporean age 21 to 39 OR Singapore PR
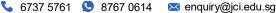(Subject to 9% GST)
50% Course Fee Funded

Subsidies Available Individual

SkillsFuture Credit
PSEA
UTAP

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Who Is This Course For

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

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

ntroduction 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

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