EAGLE
INFOTECH
A MEMBER OF JAMES COOK ACADEMY

COURSE DURATION

16 hours

COURSE SYNOPSIS

Robotic Process Automation (RPA) has emerged as a powerful tool for automating repetitive tasks and optimizing business processes. In this 14-hour 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

TARGET AUDIENCE (OPERATIONAL, SUPERVISORY & MANAGERIAL)

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

ASSUMED SKILLS:

- Workforce Skills Qualifications ("ES WSQ") Workplace Literacy ("WPL") level 5

- Be able to read and write English at a proficiency level equivalent to ES WSQ WPL level 5

- Be able to manipulate numbers at a proficiency level equivalent to ES WSQ Workplace Numeracy ("WPN") level 5

- Learners to have minimum GCE 'O' level or ITE certificate education

- Learner should have at least 1 year's working experience in any industry

- Learners must be able to operate a personal computer, use keyboard and mouse

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

    o Extracting Data from the Web

    o Automation using Excel Files

    o 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

    o 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