



CENTRAL BANK OF EGYPT
Egyptian Banking Institute

Intelligent Process Automation



32 Hours



Virtual

Center of **Excellence** and **Knowledge Hub**

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Course Description:

Robotic Process Technology (RPA) is an enterprise-grade software technology that automates business processes by “mimicking human interactions with computer-based workflow tasks” and much more than that. RPA automates repetitive manual, rules-based, administrative IT business process tasks to create a more agile, cost effective, and accurate front & back-office.

There is an increasing adoption of RPA by enterprises with front-office and significant back-office operations, in applications like CRM, ERP, HR, billing, claims management, contact centres, customer service, financial & accounts management, transaction processing, and many more.

With Artificial Intelligence technologies such as Machine Learning (ML) and Natural Language Processing (NLP), RPA is bringing cognitive and analytical abilities thus providing Intelligent Process Automation (IPA) for building a true Digital Workforce.

RPA technology allows automating tasks with any software application in any business domain, any functional domain, and with any technology-based software applications. RPA allows process orchestration, building UI Apps, Intelligent Document Processing (IDP), Etc.

Course Objectives:

This course provides hands-on knowledge of applying AI in building intelligent business process automation using UiPath software components such as Document Understanding, AI Center, API Integration. And learning about performance measurements and future trends in IPA.

Target Audience:

RPA UiPath Developers with min 6 months of UiPath hands-on project work experience.

Pre-Requisite Knowledge:

Min 6 months UiPath hands-on project work experience.

Course Outline:**Introduction to Intelligent Process Automation (IPA)**

- Definition and overview of IPA
- Key components of IPA
- Benefits of implementing IPA in financial processes

Key Technologies in IPA

- Robotic Process Automation (RPA)
- Artificial Intelligence (AI)
- Machine Learning (ML)
- Natural Language Processing (NLP)
- Fusion of multiple technologies

Understanding Financial Processes and automation

- Identification of key financial processes
- Overview of the chosen case study: Streamlining Invoice Processing

Streamlining Invoice Processing

- Current challenges in manual invoice processing
- Goals of automation in this process
- Overview of the chosen technology stack for the case study

Popular RPA/IPA tools

- Introduction to a popular RPA tool (e.g., UiPath)
- Creating a simple automation workflow for data entry

Leveraging AIML for IPA

- Understanding how AI and ML can enhance automation
- Implementing machine learning algorithms for data extraction and validation
- Natural Language Processing (NLP) in IPA
- Overview of NLP and its applications in finance
- Building an NLP model for invoice processing

Integrating IPA with Existing Systems

- Ensuring seamless integration with ERP systems
- API integration and data security considerations

Performance, Monitoring and Analytics in IPA

- Strategies for scaling automation across different processes
- Addressing challenges and considerations for large-scale implementation
- Implementing monitoring tools for tracking automation performance
- Analyzing data to identify areas for continuous improvement

Compliance and Governance in IPA

- Ensuring adherence to regulatory requirements
- Implementing governance frameworks for IPA

Future Trends in IPA

- Overview of emerging technologies in IPA
- Predictions for the future of automation in finance
- Recap of key learnings
- Providing resources for further learning and exploration

About the Speaker / Instructor:**Ramesh Nougain is a Certified and Official RPA UiPath Freelance Trainer.**

Ramesh has Delivered 4400+ hours of RPA UiPath Training to 3500+ professionals in 150+ batches from organizations such as **Deloitte, KPMG, E&Y, PwC, JPMC, BNY Mellon, Accenture, IBM, Oracle, Infosys, TCS, Capgemini, CGI, Walmart Labs, Allstate, Allianz, PepsiCo, BASF, Majid Al Futtaim, Dubai Petroleum, Cairn Vedanta, Cognizant, Dell, AIG, Fiserv, EXL Services, NCR Corporation, Vodafone, Ericsson, Mphasis, Nissan, eClerx, Philips, Tavant, Quantum Integrators, BML Munjal University, NIIT University, Delhi University, Imarticus, Edureka, SimpliLearn, Packt, Xebia, 300plus, Academy4RPA, CYIENT, CA Technologies, Mahindra Group. Delivered Automation Anywhere trainings to Qualcomm, IBM, Bajaj FinServ, NU, ...**

Ramesh has 20+ years of Software Development and Delivery Management experience including 7+ years' experience in the RPA field. Ramesh has worked with companies such as Newgen Software Technologies, SDG Corporation, Headstrong Genpact, and NIC. He has worked in multiple roles ranging from software developer to delivery manager in the fields of product and application development, global service delivery, and implementation projects.

Ramesh has worked in domains such as Business Process Management (BPM), Document Management System (DMS), Digital Transformation, IT Risk Management (GRC), Pharmacy Benefit Management (PBM), eGovernance, and CAD/CAM product development.

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