

Course No. 1243

Robotic Process Automation (RPA) with AI Training Course

AI AUTOMATION & INTELLIGENT WORKFLOWS
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Robotic Process Automation (RPA) with AI Training Course is designed to equip professionals with the strategic knowledge and practical skills required to automate business processes through the integration of Robotic Process Automation (RPA) and Artificial Intelligence (AI). As organizations continue to accelerate their digital transformation initiatives, traditional automation is evolving into intelligent automation, enabling software robots to perform repetitive tasks while AI technologies enhance decision-making, document understanding, data analysis, and workflow optimization. This course provides a comprehensive framework for implementing AI-powered automation that improves operational efficiency, reduces costs, enhances accuracy, and supports enterprise innovation.

Modern organizations manage thousands of repetitive, rules-based processes across finance, human resources, procurement, customer service, operations, compliance, and administration. By combining RPA with technologies such as Machine Learning, Natural Language Processing (NLP), Computer Vision, Intelligent Document Processing (IDP), and Generative AI, organizations can automate increasingly complex business processes while maintaining governance, compliance, and operational control. This course demonstrates how intelligent automation transforms manual workflows into scalable, efficient, and data-driven business operations.

Throughout the Robotic Process Automation (RPA) with AI Training Course, participants will explore the complete intelligent automation lifecycle, including process identification, automation assessment, solution design, bot development principles, AI integration, workflow orchestration, governance, cybersecurity, change management, and performance measurement. The course also examines best practices for selecting automation candidates, developing business cases, measuring return on investment (ROI), managing automation risks, and establishing enterprise automation governance frameworks that support long-term business value.

Combining strategic concepts with practical implementation methodologies, this course prepares executives, managers, business analysts, automation specialists, digital transformation professionals, and operational leaders to successfully implement AI-powered RPA initiatives. Through practical workshops, implementation exercises, business case development, and real-world scenarios, participants will gain the capabilities to optimize business processes, improve service delivery, strengthen operational resilience, and support sustainable digital transformation across government entities, financial institutions, oil and gas organizations, and large enterprises.

Objectives

- Analyze organizational processes to identify opportunities for AI-powered Robotic Process Automation during the course.
- Develop intelligent automation strategies aligned with business objectives and digital transformation initiatives.
- Evaluate business processes to determine automation feasibility, complexity, and expected business value.
- Apply Robotic Process Automation and AI technologies to automate repetitive and semi-structured business activities.
- Design scalable intelligent automation workflows that integrate AI with enterprise business systems.
- Improve operational efficiency, accuracy, and productivity through AI-enabled automation solutions.
- Strengthen governance, compliance, cybersecurity, and risk management throughout intelligent automation initiatives.
- Implement automation performance measurement using KPIs, ROI analysis, and operational metrics.
- Assess organizational readiness and technology capabilities for enterprise AI-powered automation projects.
- Align intelligent automation initiatives with operational excellence, continuous improvement, and long-term organizational strategy.

Who Should Attend

The Robotic Process Automation (RPA) with AI Training Course is designed for executives, operations managers, digital transformation leaders, automation managers, IT managers, project managers, business process managers, enterprise architects, innovation managers, business analysts, operational excellence professionals, and senior decision-makers responsible for improving business performance through intelligent automation.

The course is particularly valuable for professionals working in government entities, ministries, public sector organizations, banks, financial institutions, insurance companies, oil and gas organizations, manufacturing companies, healthcare providers, telecommunications organizations, logistics companies, energy organizations, utilities, and multinational corporations implementing

enterprise automation and digital transformation strategies.

It is also suitable for RPA developers, AI specialists, process improvement professionals, Lean and Six Sigma practitioners, ERP consultants, compliance officers, internal auditors, HR professionals, finance managers, procurement specialists, customer service managers, workflow designers, enterprise automation consultants, and professionals responsible for business process optimization, workflow automation, and operational innovation.

Learning Outcomes

- By the end of the Robotic Process Automation (RPA) with AI Training Course, participants will be able to:
- Explain the principles and business value of AI-powered Robotic Process Automation.
- Assess organizational processes to identify suitable automation opportunities.
- Design intelligent automation workflows that integrate RPA with Artificial Intelligence technologies.
- Apply AI capabilities such as Machine Learning, Natural Language Processing, Computer Vision, and Intelligent Document Processing within automation solutions.
- Improve operational efficiency, process accuracy, and service delivery through intelligent automation.
- Evaluate automation performance using KPIs, ROI analysis, and operational performance metrics.
- Implement governance, cybersecurity, compliance, and risk management frameworks for enterprise automation.
- Develop business cases and implementation roadmaps for AI-powered RPA initiatives.
- Support organizational change and workforce adoption of intelligent automation technologies.
- Lead enterprise intelligent automation programs that contribute to operational excellence, digital transformation, and continuous improvement.

Course Outline

DAY 01

Foundations of Intelligent Automation

- Introduction to Robotic Process Automation (RPA) and Artificial Intelligence
- Evolution from traditional automation to intelligent automation
- Business value of AI-powered automation across industries
- Identifying automation opportunities within enterprise operations

PRACTICAL WORKSHOP

Assessing organizational readiness for intelligent automation

DAY 02

AI Technologies Supporting RPA

- Machine Learning applications in intelligent automation
- Natural Language Processing for business process automation
- Computer Vision and Intelligent Document Processing
- Generative AI for workflow enhancement and knowledge automation

PRACTICAL WORKSHOP

Mapping AI technologies to automation use cases

DAY 03

Designing Intelligent Automation Solutions

- Business process analysis and automation assessment
- Intelligent workflow design and automation architecture
- Integration with ERP, CRM, BPM, and enterprise applications
- Exception handling, orchestration, and process monitoring

DAY 03 — CONTINUED

PRACTICAL WORKSHOP

Designing AI-powered automation workflows

DAY 04

Governance, Security, and Performance Management

- Governance frameworks for enterprise RPA and AI initiatives
- Cybersecurity, data privacy, regulatory compliance, and risk management
- Measuring automation performance using KPIs and business value metrics
- Organizational change management and automation adoption strategies

PRACTICAL WORKSHOP

Developing governance models and automation performance dashboards

DAY 05

Enterprise AI-Powered RPA Implementation

- Planning and managing intelligent automation projects
- Scaling AI-powered RPA across organizational functions
- Continuous improvement and operational excellence through intelligent automation
- Future trends in hyperautomation, autonomous business processes, and AI-driven enterprise operations

FINAL WORKSHOP

Developing a comprehensive Robotic Process Automation (RPA) with AI implementation roadmap, automation strategy, governance framework, KPI dashboard, business case, and organizational action plan for sustainable digital transformation and operational excellence.



Register or Request More Information

Course page: <https://quest-training.com/courses/robotic-process-automation-rpa-with-ai-training-course>

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