

Course No. 1773

Improving Efficiency & Accuracy through Analytics & Intelligent Automation Training Course

DATA ANALYTICS & BUSINESS INTELLIGENCE
DATA, ANALYTICS & DIGITAL TRANSFORMATION

DURATION

5 Days

DELIVERY

Classroom



Course Overview

Improving Efficiency & Accuracy through Analytics & Intelligent Automation is a practical professional training course designed to help organizations enhance operational efficiency, accuracy, productivity, and service quality by integrating advanced analytics with intelligent automation.

The course provides a structured approach to identifying process inefficiencies, bottlenecks, repetitive activities, delays, errors, and unnecessary manual work. Participants learn how to use data and analytics to understand operational performance and identify automation opportunities that can deliver measurable improvements.

The programme explores the integration of data analytics, artificial intelligence, workflow automation, intelligent process automation, and continuous improvement. It focuses on practical applications that enable organizations to reduce manual effort, improve accuracy and consistency, accelerate processes, strengthen controls, and optimize resources.

Through practical exercises, case studies, process analysis, and automation scenarios, participants will learn how to assess and prioritize automation opportunities, build business cases, measure benefits, manage risks, and develop sustainable strategies for scaling intelligent automation across the organization.

Objectives

- By the end of this course, participants will be able to:
- Understand the principles of analytics and intelligent automation.
- Identify operational inefficiencies, bottlenecks, and repetitive activities.
- Analyze processes to determine sources of delay, cost, and errors.
- Apply analytics to measure operational efficiency and accuracy.
- Identify high-value opportunities for intelligent automation.
- Evaluate processes based on automation feasibility, complexity, and business value.
- Redesign workflows to improve efficiency before implementing automation.
- Apply artificial intelligence to enhance automated processes.

- Reduce manual intervention and repetitive administrative activities.
- Improve data accuracy, consistency, and process reliability.
- Develop performance indicators for measuring automation outcomes.
- Assess automation risks, controls, governance, and operational impacts.
- Build business cases for analytics and intelligent automation initiatives.
- Develop implementation and scaling strategies for automation.
- Establish a continuous improvement framework for analytics-driven automation.

Who Should Attend

This course is designed for managers, supervisors, process owners, analysts, and professionals responsible for operational efficiency, process improvement, digital transformation, automation, performance management, and business optimization.

It is particularly relevant to professionals working in operations, business process management, continuous improvement, quality, finance, human resources, procurement, customer service, information technology, data analytics, artificial intelligence, digital transformation, and shared services.

The programme is suitable for government and public sector organizations, banks and financial institutions, oil and gas, energy, engineering, manufacturing, telecommunications, healthcare, logistics, and large corporations seeking to improve efficiency, accuracy, productivity, and service delivery through analytics and intelligent automation.

Learning Outcomes

- Upon successful completion of the course, participants will be able to:
- Analyze business processes to identify inefficiencies and improvement opportunities.
- Identify repetitive and error-prone activities suitable for automation.
- Use analytics to measure process performance and operational efficiency.
- Detect bottlenecks, delays, duplication, and unnecessary process steps.
- Prioritize automation opportunities according to business value and feasibility.
- Design optimized workflows supported by intelligent automation.

- Apply artificial intelligence to enhance automated processes.
- Improve accuracy, consistency, and reliability through automation.
- Develop performance indicators for automated processes.
- Evaluate cost savings, productivity improvements, and operational benefits.
- Identify risks and control requirements associated with automation.
- Develop practical business cases for intelligent automation projects.
- Create implementation plans for analytics and automation initiatives.
- Establish governance and monitoring mechanisms for automated processes.
- Develop a roadmap for scaling analytics-driven intelligent automation across the organization.

Course Outline

DAY 01

Analytics, Efficiency & Process Performance

- Understanding operational efficiency and process effectiveness
- The role of analytics in improving organizational performance
- Measuring productivity, accuracy, cost, quality, and cycle time
- Process mapping and operational performance analysis
- Identifying bottlenecks and process constraints
- Detecting repetitive activities and manual dependencies
- Identifying process errors, rework, and duplication
- Using operational data to identify improvement opportunities
- Developing meaningful process performance indicators
- Establishing performance baselines for efficiency and accuracy

PRACTICAL APPLICATION

Analyzing a business process to identify inefficiencies, performance gaps, and potential automation opportunities

DAY 02

Intelligent Automation & Process Optimization

- Understanding intelligent automation and its business applications
- Moving from traditional automation to intelligent process automation
- Workflow automation and rule-based process automation
- Automating repetitive operational and administrative activities
- The role of artificial intelligence in intelligent automation
- Intelligent document and information processing
- Process redesign before automation
- Eliminating unnecessary steps and process duplication
- Selecting and assessing processes for automation
- Evaluating automation complexity, feasibility, and expected value

PRACTICAL APPLICATION

Redesigning an inefficient process and developing an intelligent automation concept

DAY 03

AI-Powered Analytics & Intelligent Decision Support

- Integrating analytics with intelligent automation
- Using artificial intelligence to identify operational patterns
- Predictive analytics for operational performance
- Identifying anomalies and potential process failures
- AI-supported forecasting and workload planning
- Intelligent alerts and exception management
- Data-driven resource optimization
- Using analytics to improve automated decision processes
- Human oversight and validation of intelligent outputs
- Converting analytical insights into automated actions

DAY 03 — CONTINUED

PRACTICAL APPLICATION

Designing an analytics-driven automation scenario to improve operational efficiency and accuracy

DAY 04**Automation Governance, Risk & Performance Management**

- Managing risks associated with intelligent automation
- Automation controls and process accountability
- Data quality and reliability in automated processes
- Monitoring automated workflows and system performance
- Managing exceptions and human intervention
- Artificial intelligence risks, bias, and reliability
- Data privacy and information security considerations
- Measuring automation effectiveness and business value
- Developing automation performance dashboards
- Establishing governance for sustainable automation

PRACTICAL APPLICATION

Developing a governance, risk, and performance framework for an intelligent automation initiative

DAY 05**Scaling Intelligent Automation & Continuous Improvement**

- Building an enterprise-wide intelligent automation strategy
- Prioritizing automation initiatives based on value and feasibility
- Developing business cases and investment justification
- Measuring productivity, cost, quality, and accuracy improvements
- Calculating automation benefits and return on investment
- Managing organizational change and employee adoption

DAY 05 — CONTINUED

- Developing analytics and automation capabilities
- Scaling successful automation initiatives across the organization
- Establishing continuous improvement mechanisms
- Building an intelligent automation portfolio and implementation roadmap
- Final Integrated Workshop: Developing an Analytics & Intelligent Automation Improvement Plan covering prioritized use cases, expected business benefits, performance indicators, governance requirements, and an implementation roadmap

Register or Request More Information

Course page: <https://quest-training.com/courses/improving-efficiency-accuracy-through-analytics-intelligent-automation-training-course>

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