

Course No. 1239

AI Process Mining Training Course

AI AUTOMATION & INTELLIGENT WORKFLOWS
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The AI Process Mining Training Course is designed to provide professionals with the strategic knowledge and practical skills required to leverage artificial intelligence and process mining technologies to discover, analyze, monitor, and optimize business processes using real operational data. As organizations accelerate their digital transformation initiatives, Process Mining has emerged as one of the most valuable analytical disciplines for improving operational transparency, identifying process inefficiencies, reducing costs, strengthening compliance, and enhancing organizational performance. By combining AI capabilities with process mining methodologies, organizations can move beyond traditional process mapping and gain data-driven insights into how business processes actually operate.

This comprehensive training course explores how AI Process Mining enables organizations to transform event logs generated by enterprise systems into actionable business intelligence. Participants will learn how to extract and analyze process data from ERP, CRM, HR, finance, procurement, customer service, and operational systems to visualize workflows, identify process bottlenecks, detect deviations from standard procedures, measure compliance, and uncover automation opportunities. The course emphasizes practical methodologies that support operational excellence, intelligent automation, and continuous process improvement.

The AI Process Mining Training Course also examines the growing role of artificial intelligence in predictive process analytics, root cause analysis, intelligent process optimization, and decision support. Participants will explore how AI enhances traditional process mining by identifying hidden patterns, forecasting operational performance, recommending process improvements, and supporting intelligent business automation initiatives. The course integrates internationally recognized best practices in process management, business analytics, AI governance, data quality, cybersecurity, and enterprise transformation.

Combining strategic concepts with hands-on learning, this course enables executives, managers, analysts, and specialists to successfully implement AI Process Mining initiatives within their organizations. Through practical workshops, real-world case studies, process discovery exercises, and implementation planning sessions, participants will gain the capabilities required to improve operational efficiency, strengthen governance, optimize business performance, and support sustainable digital transformation across government entities, financial institutions, oil and gas organizations, and large enterprises.

Objectives

- Analyze organizational business processes using AI Process Mining methodologies to identify operational improvement opportunities during the course.
- Develop structured approaches for extracting, preparing, and analyzing process data from enterprise systems.
- Evaluate process performance using event logs, process discovery techniques, and operational performance indicators.
- Apply AI-driven analytics to identify process bottlenecks, inefficiencies, deviations, and root causes.
- Design accurate process models that reflect actual business operations based on enterprise data.
- Improve operational efficiency by identifying automation opportunities and process optimization initiatives.
- Strengthen compliance monitoring through AI-enabled process conformance analysis.
- Implement data governance and data quality practices that support reliable Process Mining initiatives.
- Assess the business value and implementation readiness of AI Process Mining projects.
- Align AI Process Mining initiatives with digital transformation, operational excellence, and continuous improvement strategies.

Who Should Attend

The AI Process Mining Training Course is designed for executives, operations managers, business process managers, digital transformation leaders, continuous improvement managers, quality managers, business analysts, enterprise architects, project managers, process excellence professionals, and senior decision-makers responsible for improving organizational performance through data-driven process optimization.

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 companies, and multinational corporations seeking to optimize operational performance through AI-enabled process intelligence.

It is also suitable for process analysts, data analysts, business intelligence specialists, IT managers, ERP consultants, compliance professionals, internal auditors, automation specialists, operational excellence teams, Lean and Six Sigma practitioners, enterprise transformation consultants, and professionals responsible for business process management, workflow optimization, intelligent automation, and digital transformation initiatives.

Learning Outcomes

- By the end of the AI Process Mining Training Course, participants will be able to:
- Explain the principles and business value of AI Process Mining within enterprise environments.
- Extract, prepare, and analyze event log data from organizational information systems.
- Develop process models that accurately represent real business operations.
- Identify operational bottlenecks, process deviations, and inefficiencies using AI-enabled analytics.
- Measure process performance and compliance through Process Mining techniques.
- Discover automation opportunities that support intelligent process optimization.
- Apply AI-driven predictive analytics to improve operational decision-making.
- Develop dashboards and analytical reports that communicate process performance effectively.
- Integrate AI Process Mining into digital transformation, operational excellence, and business process management initiatives.
- Prepare an implementation roadmap for launching AI Process Mining projects that support continuous organizational improvement.

Course Outline

DAY 01

Introduction to AI Process Mining

- Fundamentals of Process Mining and enterprise process intelligence
- Business value of AI Process Mining in modern organizations
- Understanding event logs, process data, and enterprise information systems
- Process Mining lifecycle, methodologies, and implementation framework

DAY 01 — CONTINUED

PRACTICAL WORKSHOP

Assessing organizational readiness for AI Process Mining initiatives

DAY 02

Process Discovery and Data Analysis

- Extracting process data from ERP, CRM, HR, finance, and operational systems
- Data preparation, cleansing, and quality management
- Process discovery techniques and workflow visualization
- Identifying process variations, bottlenecks, and operational inefficiencies

PRACTICAL WORKSHOP

Discovering real business processes from event log data

DAY 03

AI-Driven Process Analysis and Optimization

- Artificial intelligence applications in Process Mining
- Predictive process analytics and intelligent process monitoring
- Root cause analysis using AI-powered insights
- Identifying automation opportunities and operational improvements

PRACTICAL WORKSHOP

AI-assisted analysis of organizational process performance

DAY 04

Process Performance, Compliance, and Governance

- Process performance measurement using KPIs and operational metrics
- Process conformance checking and regulatory compliance analysis
- Data governance, cybersecurity, privacy, and enterprise data management

DAY 04 — CONTINUED

- Executive dashboards and business reporting for Process Mining

PRACTICAL WORKSHOP

Designing performance dashboards and compliance monitoring frameworks

DAY 05

Enterprise AI Process Mining Implementation

- Planning and managing AI Process Mining projects
- Integrating Process Mining with Intelligent Automation, Business Process Management (BPM), and Digital Transformation
- Change management and organizational adoption strategies
- Continuous process improvement and operational excellence frameworks

FINAL WORKSHOP

Developing a comprehensive AI Process Mining implementation roadmap, process optimization strategy, governance framework, KPI dashboard, and organizational action plan for sustainable business improvement.

Register or Request More Information

Course page: <https://quest-training.com/courses/ai-process-mining-training-course>

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