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COURSE BROCHURE

Business System Analysis for AI-Enabled Solutions Training Course

10 – 14 May 2027
Dar es Salaam

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Registered in the United Kingdom and Saudi Arabia

Business System Analysis for AI-Enabled Solutions Training Course

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Business System Analysis for AI-Enabled Solutions is a 1-week training course for business analysts, product owners and process improvement leads who must specify systems that include predictive or generative features, and it produces an AI-ready requirements specification. As organisations add models to everyday business systems, vague requirements turn into unreliable behaviour, rework and disputes about what the system was meant to do. Jupiter Prime Training delivers this subject as a focused, hands-on course.

Why Business System Analysis for AI-Enabled Solutions Matters Now

Three forces reshape the analyst's work. Business units now ask for features that classify, recommend or generate content, so requirements must describe probabilistic behaviour rather than fixed rules. Operations and risk owners expect clear limits on what a model may decide on its own. Delivery teams build iteratively, so specifications must stay traceable as scope moves. An organisation that captures these needs well gets systems users trust; one that does not inherits silent errors and costly redesign. The course draws on ISO/IEC 42001, the AI management system standard, and the NIST AI Risk Management Framework AI RMF for framing intended use and impact.

Who Gains Most from Business System Analysis for AI-Enabled Solutions

- Analysts who elicit and document requirements for new or changing business systems
- Product owners who prioritise backlogs that include model-driven features
- Process improvement leads who redesign workflows around automated decisions
- Solution coordinators who connect business users with data and engineering specialists
- Quality and testing leads who turn requirements into acceptance tests

A delivery squad sending its analyst, product owner and test lead together gains most.

Business System Analysis for AI-Enabled Solutions Capabilities

Participants practise turning loosely stated business needs into requirements a model-enabled system can be built and tested against.

- Map stakeholders and their decision rights over automated outcomes — sponsors and affected users
- Elicit functional and model-behaviour requirements through interviews and observation — product owners
- Model current and future processes, including human review points — operations managers
- Specify data entities, sources and quality rules a model relies on — data engineers
- Write use cases and acceptance criteria with tolerance thresholds — test leads
- Build a traceability matrix linking needs, requirements and tests — change control boards

Key Business System Analysis for AI-Enabled Solutions Terms

- Requirements elicitation — Techniques such as interviews, observation and prototyping that draw out what stakeholders need.
- Use case — A description of how an actor interacts with a system to reach a goal, including alternative and exception flows.
- Acceptance criteria — Testable conditions a feature must meet before the business accepts it as complete.
- Intended use statement — A short declaration of what an AI feature is for, who uses it and where it must not be applied.
- Human-in-the-loop checkpoint — A defined step where a person reviews, overrides or confirms a model's output before it takes effect.
- Requirements traceability matrix — A table linking each business need to its requirements, design elements and tests.

Business System Analysis for AI-Enabled Solutions Day by Day

Day 1: Context and Stakeholders of AI-Enabled Systems

- Business Need Statements — Framing the Problem a Model Should Solve
- Stakeholder Mapping — Assigning Decision Rights Over Automated Outcomes
- Intended Use Statements — Bounding Where an AI Feature Applies
- ISO/IEC 42001 and NIST AI RMF — Context for Impact Questions
- Scope and Context Diagrams — Agreeing System Boundaries With Sponsors

Day 2: Eliciting Needs for Model Behaviour

- Interviews and Observation — Capturing Tacit Rules Behind Current Decisions
- Prototype Walkthroughs — Testing User Expectations of Generated Output
- Functional Versus Model-Behaviour Requirements — Separating Rules From Predictions
- Non-Functional Requirements — Setting Latency, Explainability and Availability Needs
- Requirements Prioritisation With MoSCoW — Sequencing Features for Release

Day 3: Process and Data Models

- BPMN Current-State Maps — Locating Manual Effort and Error Points
- Future-State Process Design — Placing Human-in-the-Loop Checkpoints
- Logical Data Models — Defining Entities a Model Consumes
- Data Quality Rules — Deciding Completeness and Accuracy Thresholds
- Data Lineage Sketches — Tracing Training and Live Data Sources

Day 4: Use Cases, Criteria and Traceability

- Use Case Specifications — Describing Main, Alternative and Exception Flows
- User Stories With Gherkin Criteria — Making Behaviour Testable
- Tolerance Thresholds for Model Output — Agreeing Acceptable Error Rates
- Requirements Traceability Matrix — Linking Needs to Tests and Design
- Change Impact Analysis — Judging Requests Against Baseline Scope

Day 5: Practising the AI-Ready Requirements Specification

- Case Elicitation Session — Applying Interview and Prototype Methods
- Case Process and Data Models — Applying BPMN and Entity Design
- Peer Review of Acceptance Criteria — Applying Tolerance Thresholds
- Sign-Off Walkthrough — Presenting Scope and Checkpoints to Sponsors
- AI-Ready Requirements Specification — Assembling the Final Package

Applying Business System Analysis for AI-Enabled Solutions After the Course

- Run an elicitation session on a live change request and record model-behaviour requirements separately from business rules.
- Build a traceability matrix for one AI feature in the current backlog and review it with the test lead.

Business System Analysis for AI-Enabled Solutions Questions FAQ

What is Business System Analysis for AI-Enabled Solutions and why does it matter now?

It is the practice of eliciting, modelling and specifying requirements for business systems that include predictive or generative features. It matters now because these features behave probabilistically, and unclear requirements lead to untrusted output, rework and disputes over scope.

Which roles gain most from Business System Analysis for AI-Enabled Solutions?

Business analysts, product owners and process improvement leads gain most. Test leads also benefit from one shared specification.

How does Business System Analysis for AI-Enabled Solutions differ from a general business analysis course?

It concentrates on systems with model-driven features. A general business analysis course covers the wider analyst role; this one adds intended use statements, tolerance thresholds and human review points within five focused days.

What do you bring back from Business System Analysis for AI-Enabled Solutions?

You bring back a requirements specification built on a case, with process models, use cases and a traceability matrix.

Business System Analysis for AI-Enabled Solutions: The Way Forward

The AI-ready requirements specification first informs the sponsor's decision on scope and release order. Product owners, engineers and test leads then use it to build and verify each feature. After the first release, revisit the tolerance thresholds and human review points, since real usage in sectors such as banking or healthcare often shows where model behaviour needs tighter definition.