

Business Systems Analysis

Defining Business and User Software Requirements for AI Spec-Driven Development



2 DAYS | 14 ENGAGEMENT HOURS | LIVE TEAM TRAINING OR ANYTIME eLEARNING | 1.4 CEUs / 14 IIBA PDUs

Course Overview

Business systems analysis is the critical discipline that ensures organizations build, buy, or configure the right solutions - solutions that truly align with business goals, user needs, and operational realities.

Whether your teams are practicing spec-driven development, vibe-coding prototypes, writing production-grade code, or configuring complex vendor platforms, the quality of the outcome always depends on the quality of the analysis.

In AI-assisted delivery, the bottleneck has moved upstream: code is generated in minutes, but if the business rules are incomplete the model infers them; if the data relationships are unclear the model guesses; if exception handling is not defined the model improvises. Every gap becomes an invisible assumption baked into production.

Inteq's Business Systems Analysis training course equips you and your team with a modern, business-centric, model-driven framework to identify, analyze, and specify clear, complete, and actionable business systems requirements.

Through intuitive models and diagrams, proven best-practice techniques, and real-world scenarios, you learn how to uncover deep operational insight and translate it into requirements that developers, system integrators, vendors - and AI-assisted coding tools - can confidently execute.

You will master a rigorous, repeatable approach for transforming business needs into precise software and solution specifications - whether expressed as user stories, use cases, full Software Requirements Specifications (SRS), or AI-ready, build-ready model-driven specifications. The specification becomes the contract: the single source of truth for design, construction, and testing.

The result is smarter solution design, faster delivery cycles, fewer defects, and systems that genuinely support how the business needs to operate.

Business Impact

In a world where AI generates code faster than ever, professional business analysis isn't optional - it's essential. It's the discipline that keeps vibe coding grounded, accelerates professional development teams, and dramatically improves the success of vendor-configured solutions.

By mastering business systems analysis, you and your team become the bridge between business vision and system execution - and a critical force in reducing rework, lowering implementation risk, and delivering business value at scale.

You will learn

Practical capabilities your team can apply immediately.

- The 5 types of business requirements that form the foundation for business analysis
- Engage business users, subject matter experts and stakeholders in the analysis process
- Surface "hidden" business requirements - before AI fills the gaps with guesses
- Specific questions that elicit deep business knowledge
- Specify precise, unambiguous business requirements that developers and AI-assisted coding tools can build from without inference
- Distinguish rule-based decisions from judgment-based decisions - and recognize AI agent candidates for downstream evaluation
- Analyze business requirements 360° to ensure thorough analysis
- Identify and validate complex business scenarios
- Use AI as a challenge mechanism to pressure-test requirement models during analysis
- Leverage analysis resources and business knowledge across the enterprise
- Business analysis best practice techniques - and much more

"AI collapses coding time from months to minutes - reinvest the dividend upstream in getting the requirements right."

James Proctor
Author, Business Systems Analysis

Detailed Course Outline

A model-driven framework for clear, complete and build-ready business systems requirements

Course Overview

Framework and Key Concepts

- Analysis myths & misconceptions
- Deep vs. superficial analysis
- Business vs. business systems requirements
- The 5 essential business analysis questions
- Why AI-assisted coding shifts the leverage upstream to analysis

Defining Baseline Requirements

- Business functions, processes and work activities
- The 5 types of business system requirements
- The Interaction Context Diagram
- Components of an effective use case

Analyzing and Extending Requirements

- Interaction flow of events
- Break-fix scenario analysis
- Business rule analysis - rule-based tasks vs. judgment-based decisions
- Identifying non-functional requirements (NFRs)

Defining Information Requirements

- Business vocabulary, terminology and semantic consistency
- Entity types | Attributes | Relationships
- ERD fundamentals
- Data quality dimensions

Extending Information Requirements

- State transition analysis
- State transition diagramming
- Analytics and reporting requirements
- Data integration requirements

BSA at Scale Case Study

Participants analyze a complex real-world business space and identify and define business and user requirements - culminating in a build-ready spec for AI-assisted development. This case study provides an invaluable template that you can leverage to jump-start and improve business systems analysis - traditional and AI-assisted - in your organization.

Elicitation and Collaboration

- Sources of business knowledge
- Quality of the conversation
- Engaging SMEs and stakeholders
- Facilitated workshops
- Managing alignment and conflict

Practical Guidance

- Scaling analysis work: proportional rigor and a governance triage for AI-built applications
- The vibe-coding-to-spec-driven spectrum: discovery tool vs. engineering discipline
- Scoping vs. specification: where the PR/FAQ belongs - and where it doesn't
- Critical success factors

Who Should Attend

- Business analysts
- Systems analysts
- Project managers
- IT professionals
- Subject matter experts
- Business users involved in discovering, analyzing and specifying business and user requirements
- Developers and software engineers adopting spec-driven, AI-assisted development

Course Includes

- 1.4 CEUs and 14 IIBA PDUs / CDUs
- Personalized digital badge
- Certificate of completion
- Comprehensive course manual
- Templates, models and frameworks

Designed for individuals and teams. Delivery is available through live team training or Anytime eLearning.

Prerequisites and Curriculum Alignment

None. Inteq's Business Systems Analysis training course provides a comprehensive and cohesive approach to systems analysis regardless of background and level of experience.

Business Systems Analysis is the 'specify the work' stage of Inteq's four-course business transformation arc - it pairs naturally with Business Process Modeling & Analysis, Business Process Reengineering, and Logical Data Modeling.

For teams implementing AI agents, this course builds the foundational specification discipline that Inteq's Agentic AI curriculum extends:

- Discovering Agentic AI Opportunities (identifying, evaluating, and prioritizing agent opportunities)
- Analyzing & Specifying AI Agent Business Requirements (engineering-ready Agent Requirements Packages).