



Advanced Data Modeling

Engaging Cross-Enterprise Data-Oriented Business Rules

Live: **2 Days**

Self-Paced eLearning: **14 Engagement Hours**

Inteq's Advanced Data Modeling training course provides participants with the deep knowledge, critical thinking skills and experienced judgment to successfully engage cross-enterprise business rules and requirements.

The concept of "engaging" business rules and requirements transcends the three core concepts of analysis—identification, analysis and specification of business rules and requirements (all of which are essential building blocks of enterprise analysis).

Inteq's Advanced Data Modeling training course enables participants to move beyond project specific rules and requirements to abstracting and generalizing the rules and requirements to enable cross-enterprise solutions.

This requires highly evolved critical thinking skills to understand the essence of business rules and requirements; and requires sophisticated judgment to discern and make essential distinctions between unique localized (departmental, project specific) rules and requirements and the requirements applicable across the enterprise.

"Engagement" requires the translation of the rules and requirements into logical data structures at the right level of abstractions to enable flexible, extensive, robust solutions that can rapidly adapt as business rules and requirements continually change.

Inteq's Advanced Data Modeling training course is about business analysis to support enterprise business solutions—not about the nuances of a specific physical database design.

Advanced Data Modeling's concepts apply across a wide range of initiatives from modernization of existing systems,

development of new systems, implementation of vendor ERP solutions and business process reengineering.

The concepts in this course are based on years of best practices gleaned from the spectrum of industries and subject matter domains across commercial and public sectors. It's your roadmap for engaging cross-enterprise business rules enabling enterprise-level solutions.

You will learn:

- Data patterns that enable you to quickly recognize and accurately analyze complex cross-enterprise data-oriented business rules and validate complex requirements.
- Generalization and abstraction techniques that enable flexible data structures that adapt to rapidly changing business rules and business requirements.
- To review and validate enterprise data models using a comprehensive and effective data model quality assurance approach.
- Best practice approaches to standardizing modeling components, meta-data and naming conventions across the enterprise.
- To identify and analyze the impact of normalization anomalies.
- To analyze the impact of data model abstraction on physical database design and systems development approaches
- and much more

Business Systems Analysis Course Series

Business Systems
Analysis

BSA

Agile Business
Analysis

ABA

Logical Data
Modeling

LDM

Advanced Data
Modeling

ADM

Course outline

Introduction and Foundation

- Cross enterprise analysis
- Model driven analysis
- Baseline data patterns
- Complex data patterns

Abstraction & Generalization

- Generalization of entity types
- Transition from meta-data to data
- Static vs. dynamic entity types
- Data coupling and cohesion

Advanced Data Patterns

- Advanced subtype variations
- Multi-recursive networks
- Conditional recursions
- Rules-based entity types
- State transition rules
- Meta Patterns

Enterprise Requirements Analysis

- Analyzing meta-data for abstractions
- Sequencing requirements analysis
- Developing cohesive subject areas
- Developing model flexibility

Case Study

Participants analyze a complex business case and create a detailed logical data model utilizing a variety of advanced patterns and analysis techniques. This session provides invaluable hands-on experience in applying the techniques to enable participants to immediately apply the techniques effectively within their own organization.

Best Practices and Practical Tips

- Conceptual v. logical data model
- Logical to physical transformation
- Business rule discovery techniques
- Enterprise reference models
- Putting the concepts into practice

Who should attend?

- Business and systems analysts
- Data modelers
- Data architects and DBAs
- BI requirements analysts
- Project managers
- Developers
- IT professionals and subject matter experts focused on cross-enterprise data-oriented business rules and requirements

Prerequisite:

Inteq's Logical Data Modeling training course.

You will receive:

- Digital badge and personalized certificate of completion
- Continuing Education Units (CEUs)
- IIBA Professional Development Units (PDUs)
- Electronic comprehensive course manual
- Supplemental course materials

LIVE: Inteq's Advanced Data Modeling 2-Day training course can be tailored to your organization's training objectives and can be combined with other Inteq courses to create a 3, 4 and 5-day hybrid training program.

Anytime eLearning™:

Anytime, Anywhere, Any Device. Self Paced. 45-Day Access.



What is the Next Step?

Let's start a conversation to discuss your objectives in more detail.
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