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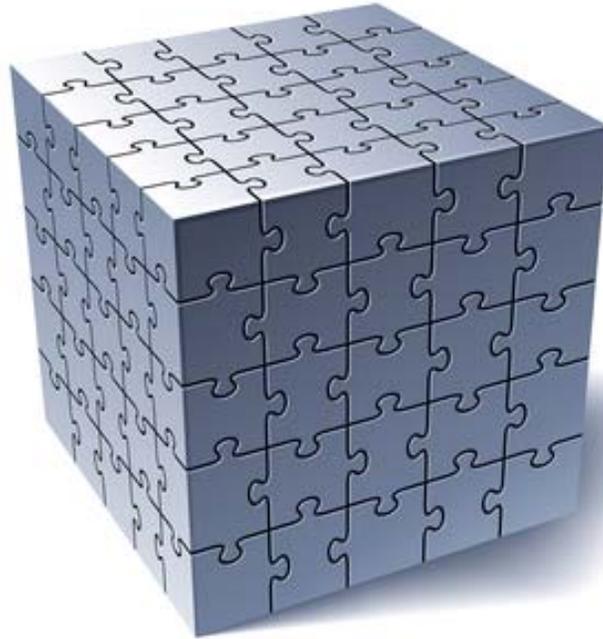Inteq's Professional Business Analysis Training Courses

Business Systems Analysis

Agile Business Analysis

Business Process Modeling

Business Process Reengineering

Logical Data Modeling

Advanced Data Modeling

Change Management

Effective Business Cases

Requirements Management

Soft Skills

BA Bootcamp

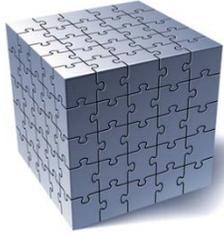# ADVANCED DATA MODELING
Engaging Cross-Enterprise Business Rules

2017 Overview & Outline

**Inteq Professional Business Analysis
Training Course Series**

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ADVANCED DATA MODELING
Engaging Cross-Enterprise Business Rules

Inteq's Advanced Data Modeling training course provides participants with the deep knowledge, critical thinking skills and experienced judgment to successfully 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.

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

In today's fast moving, highly competitive, complex business environment organizations can no longer afford the costly mistakes, operational inefficiencies and lost opportunities that result from taking a myopic project level rather than a cross enterprise perspective.

Inteq's Advanced Data Modeling training course transforms analysts into high-impact professionals; professionals that connect and

engage with business people, uncover and rapidly assimilate deep business knowledge, and critically analyze and transform that knowledge into thorough, precise unambiguous business and user requirements.

Inteq training has emerged as the gold standard for professional business systems analysis training - and are simply the most effective training programs available in the industry.

Inteq training is more than education; its transformation - for the participants, project teams and their organizations.

That's why over 300,000 business systems analysis professionals worldwide choose Inteq's business and I.T. professional training programs.

Who Should Attend?

Business and Systems Analysts, Data Modelers, Data Architects and DBAs, BI Requirements Analysts, Project Managers, Developers, and IT Professionals and Subject Matter Experts focused on cross-enterprise data-oriented business rules and requirements.

Prerequisites:

Inteq's Logical Data Modeling training course.

Learning Options

- Anytime eLearning™: Anytime | Anywhere | Any Device | Self-Paced
- On-site at your location (or via live virtual): 2 Day

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*

Participants in receive a comprehensive course workbook, supplemental materials, and a personalized Certificate of Completion indicating CEU (continuing education unit) credits awarded.

What is the Next Step?

Inteq training programs are available via Anytime eLearning™ and on-site at your locations (or via live virtual) – worldwide.

Contact us today:
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Inteq training programs can be tailored to your organization's specific training objectives and can also be combined into innovative 3, 4, and 5-day hybrid training programs.