INTEQGROUP

Over 300,000 business and IT professionals trained

Logical Data Modeling

Mapping & Analyzing Data Oriented Business Rules

Live: Onsite or Virtual
2 Days | 14 Hours

Anytime eLearning
Self Paced | 14 Hours

Logical Data Modeling is an essential component of professional business analysis. Logical data modeling is often mistaken for database design. However, logical data modeling is the foundation for excellence in business analysis, business systems analysis and business intelligence requirements analysis.

Inteq's Logical Data Modeling training course provides the basis for understanding the complex moving parts of an organization—its data-oriented business rules—the foundation for precision and agility in requirements analysis.

Business terminology embodies an organization's business concepts, rules and underlying relationships. These concepts, rules and relationships form a body of knowledge called "data oriented business rules."

In most organizations, data-oriented business rules live as tribal knowledge, informally, in the minds of the people doing the essential day-to-day work of the organization.

However, these informal rules unofficially govern how organizations operate and how decisions are made. These rules are surprisingly vague and ambiguous; they are rarely subject to critical analysis. Yet, these rules are the basis for articulating business system requirements that are equally vague and ambiguous.

Vague and ambiguous requirements result in costly, inflexible and maintenance-intensive information systems; systems, that even after significant investment, still do not deliver the necessary functionality. That's truly unfortunate because there is a clear path to getting the requirements right

Based on decades of experience, Inteq has uncovered and refined the foundational patterns of data-oriented business rules. Participants in Inteq's Logical Data Modeling training course utilize these patterns to rapidly discover, critically analyze and precisely specify data-oriented business rules via entity relationship (ER) diagrams

You will learn:

- Critical thinking skills to cut though superficial and ambiguous discussions to distill core business concepts
- To recognize recurring patterns of data-oriented business rules to improve the quality and speed of analysis.
- Techniques that enable thorough analysis of complex business rules and validation of complex requirements.
- To create a precise, common vocabulary that is consistent among business end-users, analysts, IT professionals and other stakeholders, across the organization.
- To developed clear, precise entity-relationship (ER) diagrams that capture and specify virtually any set of data-oriented business rules.
- and much more

Course outline

Introduction and Foundation
- Data-oriented business rules
- Business vocabulary & Terminology
- Business transactions vs. business intelligence
- E/R diagrams and data models

Framework for E/R Diagramming
- Business entity types
- Attributes and meta-data
- Cardinality and dependency
- Foundational relationships

Diagramming Baseline Rules and Patterns
- Domain entity types
- Associative relationships
- Domain-based associations
- Repeating groups
- Transactional relationships

Diagramming Complex Rules and Patterns
- Super type / sub-type relationships
- Recursive hierarchies
- Recursive networks
- Role-based associations
- Time-dependent data

Case Study
Analyze a complex real-world case and develop a logical data model to support the data-oriented business rules and requirements. This case study provides an invaluable template that you and your team can leverage to develop professional level logical data models in your organization

BI and Analytic Requirements
- Tactical and strategic business questions
- Reporting requirements
- ·Business facts and dimensions
- Dimensional modeling

Business Rule Generalization
- Normalizing business data
- Generalizing business entities
- Analyzing meta-data for abstractions

Practical Guidance
- Scaling models to the enterprise level
- Model transformation; conceptual, logical, physical
- Using reference models to leverage analysis
- Implementation considerations and best practices

Who should attend?

- Business Analysts
- Business Systems Analysts
- Data Modelers
- BI Requirements Analysts
- Data and Enterprise Architects
- DBAs
- Project Managers
- Developers and IT Professionals
- Subject matter experts and business professionals focused on data-oriented business rules and requirements

Prerequisites:

None. Inteq's Logical Data Modeling provides a comprehensive and cohesive approach data modeling and entity-relationship diagramming regardless of background and level of experience.

LDM is an excellent precursor and integrates seamlessly with Inteq's Advanced Data Modeling training course and is an excellent companion to Inteq's Business Systems Analysis training course.

What's included:

- 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 Logical 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.

What is the Next Step?

Let's start a conversation to discuss your objectives in more detail.
Contact Chandra Galloway: 800.719.4627 | cgalloway@inteqgroup.com

www.inteqgroup.com