

TDWI Requirements for Data-Driven Enterprises

Discovery, Analysis, and Management

Course Outline

Module 1 - Requirements for BI and Analytics

- Requirements Challenges
 - Requirements for Transaction Systems
 - Requirements for BI and Analytics Systems
 - Data Creation and Use
 - Requirements Gathering vs. Discovery
 - Business Language
- The BI and Analytics Lifestyle
 - Stages of Development
 - Agile Development
 - Requirements Through the Lifecycle
- Kinds of Requirements
 - Business Requirements
 - Information Requirements
 - Technical Requirements
- Roles and Skills
 - Knowledge
 - Roles
 - Skills
- Program Requirements
 - Business Domains
 - Assessment
 - Prioritization
 - Project Selection
 - Requirements from Performance Management
 - Strategy Maps
- Summary and Discussion
 - Requirements Challenges

Module 2 - Requirements Classifications

- The Scope of BI and Analytics Requirements
 - An Overview
 - Business in BI
- Business Requirements Classifications
 - Business Value Requirements
 - BI and Analytics Capability Requirements
 - BI and Analytics Capability Requirements: Descriptive
 - BI and Analytics Capability Requirements: Diagnostic
 - BI and Analytics Capability Requirements: Discovery
 - BI and Analytics Capability Requirements: Predictive
 - BI and Analytics Capability Requirements: Prescriptive
- Information Requirements Classifications
 - Content Requirements

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- Integration Requirements
- Delivery Requirements
- Technical Requirements Classifications
 - Service Level Requirements
 - Infrastructure Requirements
- Summary and Discussion
 - Requirements Classifications

Module 3 - Requirements Discovery Techniques

- Requirements as a Human Process
 - People and Requirements Discovery
 - Identifying Stakeholders
 - Busy People vs. Involved Participants
 - Some of the Challenges
- Techniques
 - An Overview
 - Interviewing
 - Group Facilitation
 - Surveys and Questionnaires
 - Prototyping
 - Current State Analysis
 - Reverse Engineering
 - Interface Analysis
- Summary and Discussion
 - Requirements Discovery Techniques

Module 4 - Requirements Discovery

- Requirements Discovery Challenges
 - Setting the Scope
 - Asking the Right Questions
- Key Questions
 - Surveying the Landscape
 - Making It Personal
 - The Current State: Data and Analysis
 - The Current State: Existing Reports
 - The Future State
- Business Requirements Products
 - Business Value Products
 - BI and Analytics Capability Products
- Information Requirements Products
 - Content Products
 - Integration Products
 - Delivery Products
- Technical Requirements Products

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- Service Level Products
- Infrastructure Products
- Summary and Discussion
 - Requirements Solicitation and Products

Module 5 - Requirements Analysis and Management

- Requirements as a Systems Process
 - Systems and Requirements Discovery
 - Process and Requirements Discovery
 - The “Why” of Requirements Management
 - The “What” of Requirements Management
- Collecting Requirements
 - Capturing Requirements
 - Defining and Refining Requirements
- Analyzing Requirements
 - Fact/Qualifier Matrix
 - Hierarchies
 - Data Sourcing
 - Data Transformation and Cleansing
 - Privacy and Security
- Documenting and Modeling Requirements
 - Specifications and Models
- Testing Requirements
 - Walk-Through
 - Acceptance Testing
 - Clarity, Correctness, and Measurability
 - Testing Completeness
- Managing Requirements
 - Managing Scope
 - Managing Impact
 - Managing Feasibility
 - Managing Change
 - Needs to Value
- Summary and Discussion
 - Requirements Analysis and Management

Module 6 - Summary and Conclusions

- Summary of Key Points
 - A Quick Review

Appendix A - Bibliography and References

Appendix B - Exercises

- Workshop 1: Project Definition

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- Workshop 2: The Language of BI Requirements
- Workshop 3: Enterprise Opportunities
- Workshop 4: Business Scope and Context
- Workshop 5: Requirements Planning
- Workshop 6: Stakeholders and Questions
- Workshop 7: Business Requirements Discovery
- Workshop 8: Information Requirements Discovery