

Module One

Data Warehousing Concepts

- Data Warehousing Basics
 - Understanding Data, Information, and Knowledge
 - Data Warehousing and Business Intelligence
 - Data Warehousing Defined
 - Business Intelligence Defined
- The Data Warehousing Application
 - The Building Blocks
 - Sources and Targets
 - Common Variations and Multiple ETL Streams
- Warehousing Data Stores
 - Data Store Responsibilities
 - The Data Warehouse
 - Data Marts
 - Persistent Data Staging
 - Integrating Operational Data
 - Day-to-Day Business Data
 - Comparing and Contrasting Data Stores
- The Data Warehousing Process
 - Process Overview
 - Incremental and Evolutionary
- Data Warehousing Deliverables
 - Results of Architecture, Implementation & Operation Activities
- The Data Warehousing Program
 - Program Planning
- Readiness Assessment
 - Readiness in Program Planning
 - Techniques
 - Self Assessment Readiness Scale
 - Self Assessment Measurement Technique
 - Using Self Assessment Results

Module Two

Data Warehousing Architecture

- Business Architecture
 - Business Context for the Data Warehouse
 - Business Drivers, Goals & Strategies
 - Business Processes
 - Examples
- Data Architecture
 - Data Analysis and Data Standards
 - Information Needs Analysis
 - Business Questions
 - Refinement of Information Needs
 - Information Needs Example
 - Data Modeling Concepts
 - Architectural Data Models
 - Warehousing Subject Model
 - Business Questions Example
 - Business Questions Mapped as Facts & Qualifiers
 - Warehousing Targets Analysis
 - Integration and Data Flow Standards
 - Warehousing Targets Configuration
 - Source Subjects and Source Data Composition

- Source Logical Data Model
 - Metadata Requirements
- Technology Architecture
 - Technology Requirements and Standards
- Project Architecture
 - Implementation Planning
 - Methodology
 - Incremental Development Planning
 - Timeboxing
 - Example of an Incremental Development Plan
- Organizational Architecture
 - Deployment and Operations Planning
 - Training Plan
 - Support Plan – Data & Information Consumers
 - Program, Project & Operations Roles

Module Three

Data Warehouse Implementation

- Implementation Planning
 - Incremental Development Project
 - Architectural Adjustments
 - Balancing Time, Resources, and Results
- Warehousing Data Modeling
 - Overview
 - Designing the Data Structures
 - What to Model?
 - Logical Models of Relational Data
 - Logical Models of Dimensional Data
 - Structural Design Considerations
 - Physical Design Considerations
- The Warehousing Process Model
 - Moving Data through the Warehousing Environment
 - Source/Target Maps
 - Data Capture Concepts
 - Data Transformation Concepts
 - Database Loading Concepts
 - Data Cleansing Concepts
 - Data Transformation Rules
 - Metadata Responsibility
 - Design of Information Services
- Deployed Technology
 - Ready-to-Use Tools
 - Range and Roles of Technology
- Implementation Components
 - Environments, Procedures, and Processes
 - Putting the Pieces Together
- Delivery Results
 - Environments, Procedures, and Processes
 - Data and Information Services

Module Four

Data Warehouse Operation

- Business Services
 - Valuable and Sustainable Services
 - Service Environment & Culture
- Data Warehouse Administration

- Data Refresh
- Managed Platforms
- Managed Environment
- Customer Service
- Managed Quality
 - Dimensions of Quality
- Managed Infrastructure
 - Processes, Technology, and People

Module Five

Summary & Conclusions

- Common Mistakes
 - From TDWI's *10 Mistakes to Avoid* Series
- References & Resources
 - Publications

Appendix A – Bibliography and References