

## Module One

### Introductory Concepts

- Context and Scope
  - Definition of Data Warehousing
  - Definition of Business Intelligence
  - Business Intelligence Framework
  - Basic Data Warehousing Concepts
- Architecture and Methodology
  - Definition of Architecture
  - Definition of Methodology
  - Purpose of Architecture
  - Categories of Data Warehousing Architecture
- Data Architecture
  - Data Structure
  - Data Flow
  - Data Integration
- Project Architecture
  - Top-Down vs. Bottom-Up
  - Hybrid Models
  - Kinds of Deliverables & Frequency of Delivery
- Data Warehousing Approach
  - Definition
  - Understanding Compatibility
  - Decision Framework
  - Defining Goals and Objectives

## Module Two

### Architecture Assessment

- Principles of Assessment
  - Introduction and Definition
  - Process Activities
  - Measurement and Gap Analysis
  - Management Insights and Decisions
- Measurement Concepts
  - Relative and Absolute Measures
  - Dimensions of Architecture Performance
  - Business Usage Dimension
  - Effort and Cost Dimension
  - Sustainability Dimension
  - Flexibility Dimension
  - Measurement Norms
  - Measurement Process
- Analysis and Decision Making
  - Establishing Context
  - Setting Goals and Priorities
  - Considering Constraints and Expectations
  - Performing Gap Analysis
  - Making Decisions

**Module Three**

## Assessment Factors

- Introductory Concepts
  - Overview
  - Architectural Factors
- Business Usage Dimension
  - Decisions Support Factor
  - Integration Factor
  - Metadata Consistency Factor
  - Unstructured Data Factor
  - Data Latency Factor
  - Data Quality Factor
  - Granularity Factor
- Cost and Effort Dimension
  - Cost to Deploy Factor
  - Cost to Operate Factor
  - Time to Deliver Factor
- Sustainability Dimension
  - Scalability Factor
  - Persistence Factor
  - Sustainability Factor
  - Staffing and Skills Factor
- Flexibility Dimension
  - Structure of Data Factor
  - Technology Dependency Factor
- Measurement Norms
  - Overview
  - Business Usage Dimension
  - Cost and Effort Dimension
  - Sustainability Dimension
  - Flexibility Dimension

**Module Four**

## Architecture Building Blocks

- Data Architecture Models
  - Functions and Roles of Data Stores
  - Centralized Hub Structure
  - Conformed Bus Structure
  - Hub and Spoke Structure
  - Independent Mart Structure
  - Additional Components
- Project Architecture Models
  - Methodology Structure
  - Program and Project Structures
  - Time Box Structures
  - Program Level Incremental Scope
  - Program Level Roadmap Structures
  - Project Level Planning Structures
- Data Warehousing Approaches
  - Revisiting Architecture Compatibility
  - Setting and Approach
  - Designing and Implementing a Custom Approach

**Module Five**

## Published Data warehousing Approaches

- Corporate Information Factory
  - Introduction
  - Data Architecture
  - Project Architecture
  - Assessment
  - Further Information
- Kimball Lifecycle
  - Introduction
  - Project Architecture
  - Data Architecture
  - Assessment
  - Further Information
- BI Pathway
  - Introduction
  - Data Architecture
  - Project Architecture
  - Assessment
  - Further Information
- Business Intelligence Roadmap
  - Introduction
  - Data Architecture
  - Project Architecture
  - Assessment
  - Further Information
- Agile Data Warehousing
  - Introduction
  - Data Architecture
  - Project Architecture
  - Project Management
  - Assessment
  - Further Information
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**Module Six**

## Summary and Review

- Key Concepts
  - Course Summary

**Appendices**

## Appendix A

- Data Warehousing Methodology Articles

## Appendix B

- Architecture Factor Assessment Details

## Appendix C

- References