Module 1 – Data Warehouse Automation Concepts and Principles

- Data Warehouse Automation Basics
  - Data Warehouse Automation Defined
  - Automated vs. Handcrafted
  - Automation vs. Customization
  - Data Warehouse Automation vs. CASE
- Why Data Warehouse Automation?
  - Business Benefits
  - Technical Benefits
  - Barriers and Resistance
- The Foundation
  - Components of Data Warehousing
  - Data Warehousing Projects
  - Design Patterns
- Activities and Deliverables
  - Data Warehousing Processes
  - What Can You Automate?
- The Technology Landscape
  - Automation Tools and Vendors

Module 2 – Building and Managing the Data Warehouse

- The Data Warehousing Lifecycle
  - A Closed Loop
  - Architecture and Planning
  - Implementation
  - Deployment and Operations
- Building the Data Warehouse
  - Requirements Driven Development
  - Modeling and Metadata Driven Development
  - Discovery Driven Development
  - Data Driven Development
- Managing the Data Warehouse
  - Operations
  - Monitoring and Tuning
  - Maintenance and Change
  - Evolution and Change
  - Support

Module 3 – Using Data Warehouse Automation

- Automation Use Cases
  - Building an New Data Warehouse
TDWI Data Warehouse Automation

Course Outline

- Building Dependent Data Marts
- Building Dimensional Data Marts
- Conforming Independent Data Marts
- Data Warehouse Prototyping
- Agile Data Warehousing
- Data Warehouse Migration
- Re-Architecting the Data Warehouse
- Warehouse Management Use Cases

- Case Studies
  - ABInBev
  - Direct Relief
  - Kaiser Permanente/Group Health
  - Hall Hunter Partnership
  - Intelsat
  - Nedap N.V.
  - Poly-Wood, LLC

Module 4 – Data Warehouse Automation in Action

- Attunity Compose in Action
  - Product Overview
- Magnitude Software Kalido in Action
  - Product Overview
- TimeXtender in Action
  - Product Overview
- WhereScape in Action
  - Products Overview

Module 5 – Getting Started with Data Warehouse Automation

- Step by Step
  - A Process for Automation
- Human Factors
  - People and Automation
- New Horizons
  - Automation and Data Warehousing Trends
- Next Steps
  - Making Your Plans

Appendix A - Bibliography and References