Course Outline:

Designing, Developing and Deploying an Effective Data Warehouse
(Course T708)

What is this course about?
A successful data warehouse project involves a set of concepts and methods designed to implement a data store as a basis for the business decision-making process. In this course, you gain the skills needed to develop an effective roadmap for implementing a robust data warehouse solution. Specifically, you learn to apply dimensional modeling to improve business decisions; extract, transform and load operational data based on organizational needs; and employ business intelligence (BI) tools to slice and dice data.

Who should attend?
Anyone interested in implementing a data warehouse solution in their organization, and those who need to re-engineer an existing data warehouse.

Prior experience with a data warehousing implementation and/or databases is helpful but not required.

Duration:
4 Days

This course qualifies for:
2.4 CEUs
23 NASBA CPEs

Chapter 1: Introduction to Data Warehousing
- What is a Data Warehouse
- Data Warehouse Architecture
- Gathering Business Requirements
- Prioritizing DW/BI Business Requirements

Chapter 2: Establishing Dimensional Modeling
- Introduction to Dimensional Modeling
- Dimensions
- Bus Matrix
- Fact Tables
- Star and Snowflake Schemas
- Special Dimension Types
- Hierarchies

Chapter 3: Building the Data Warehouse
- Mapping the Physical Data Model
- Indexing
- Aggregations
• Partitioning
• Sizing Considerations
• Storage

Chapter 4: Extracting, Transforming and Loading Data
• Overview of ETL Process
• Extract
• Transform
• Load

Chapter 5: Leveraging Business Intelligence for Data Analysis
• Business Intelligence Stack Overview
• Querying Data From the OLAP Server
• Drill Down Through Multidimensional Hierarchies
• Excel as a Client Tool for Data Analysis
• Surfacing KPIs to Evaluate the Health of Your Organization
• SharePoint as a BI Deployment Platform

Chapter 6: Big Data Analytics
• Data Mining
• What is Big Data?
• Managing Unstructured Data
• Big Data and the Data Warehouse

Chapter 7: Course Summary