Course Title: Data Modeling – Fundamentals

Course Description:
Define and analyze data requirements to support of business processes of an organization.

Course Prerequisite(s):
Database Fundamentals, SQL Server 2008 Essentials, SQL Programming, or equivalent experience.

Course Objectives:
Define and analyze data requirements to support of business processes of an organization. Prerequisites: Database Fundamentals, SQL Server 2008 Essentials, SQL Programming, or equivalent experience.

Next Class Possibilities:
Microsoft Certified ITP Database Admin

Textbook(s):
Data Modeling Made Simple with CA Erwin Data Modeler r8

Lesson Plan – by week or session
Session 1: Data Model Overview
Data Model Tools Overview
CA ERwin Data Modeler Overview
Session 2: What are entities?
What are data elements?
What are relationships?
Session 3: What are keys?
Optimizing Model Presentation
Personalizing Your Workspace
Session 4: Domains
Validation Rules
Naming Standards
Session 5: Datatype Standards
User-Defined Properties (UDPs)
Session 6: Model Templates
Reporting, Querying, and Editing
Session 7: What are conceptual data models?
What are logical data models?
Session 8: What are physical data models?