Who should attend (Audience)
This course is designed for Application Administrators, Database Administrators, and other IT Professionals who are seeking foundational knowledge to work with relational databases.

What is this course about?
This course provides a comprehensive introduction to relational databases which are designed, built, and used based on relational technology – the state-of-the-art approach to organizing and accessing data. Relational technology is the foundation for many modern database systems, including Oracle, SQL Server, and MySQL.

Recommended prerequisites
- None

Previous knowledge & experience needed
- None
Course Details

Chapter 1: A Database Environment: The Basics
- The Database
- The DBMS
- User Interface Tools
- The Users
- Different Users of a Database
- The Database Development Process

Chapter 2: Relational Databases: Theory and Practice
- Tables
- Relationships
- Integrity
- Manipulation

Chapter 3: Data Modeling
- Entity-Relationship Approach
- An Example of Developing an ERD
- Basic Modeling Capabilities

Chapter 4: Logical Database Design: Data Modeling
- Using a CASE Tool to Reverse-Engineer a Database
- Using a CASE Tool for Data Modeling
- Advanced Modeling Capabilities
- Preview of Transforming a Data Model to a Database

Chapter 5: Logical Database Design: Normalization
- What is Normalization?
- Why is Normalization Important?
- How to Normalize Data Using Functional Dependencies
- How to Normalize Data Using Codd's Rules
- Impact of Un-normalized Data on Processing
- Goal of Logical Database Design is Normalized Data

Chapter 6: Physical Database Design
- Goals and Approach to Physical Design
- Transforming Logical to Physical Design
- Physical Table Restructuring

Chapter 7: Course Summary
Common Questions – Attendance Policy, Contacts

What is the Attendance Policy for IT Academy Classes?
IT Academy attendees are expected to adjust their work schedule to match the IT Academy class hours of 8:00am – 4:00pm. 100% attendance is expected in each IT Academy class. Missing time in class may result in the following:

- **No Show**=Employees who do not show up for class or arrive more than one (1) hour after the start of class will be advised to reschedule for the next available course.
- **Incomplete**=Employees missing a half day or more of class-any day of class-will be advised to reschedule for the next available course. Employees not available to sit for the post-test will be considered incomplete.

**AnyWare Technical Support contact?**
AnyWare@LearningTree.com, 1-877-653-8733

**IT Academy Classroom Point of Contact?**
Christopher Marsh, Christopher.marsh@tn.gov, 615-532-5517

**How do I access the new My IT Academy Portal?**
1. Log into Edison
2. ELM Learning Home Page
3. Quick Links
4. My IT Academy (last link under Quick Link)

For more FAQs visit the IT Academy AEM Site