

ITMT 2077 Course Syllabus

1. Name of Course: Design Reporting Solutions for Microsoft SQL Server 2005

2. Number of Clock Hours: 16

3. Course Description:

The purpose of this course is to teach Business Intelligence (BI) professionals working in enterprise environments to design a reporting solution architecture that supports their BI solution. Students will go through the entire process—from identifying report data to promoting the reporting solution to production. Students will scale a reporting solution. Students will also be taught best practices for collaborating with application developers to integrate applications and reporting services. MOC 2797.

Prerequisites: ITMT 2076 Design Analysis Solutions for Microsoft SQL Server 2005.

4. Course Objectives

At the end of the course, students will be able to:

- Design a reporting solution
- Develop a reporting solution
- Collaborate with application developers to complete reporting and analytical interfaces
- Deploy and manage a Reporting Services solution
- Design security for a Reporting Services solution
- Optimize report rendering performance

5. Rationale:

Upon completion of this course, students will have a better understanding of Microsoft SQL Server 2005, a power database system.

6. Required Materials:

Microsoft Official Curriculum, MOC 2797, included.

7. Evaluation

Those who participate in class discussions, complete course lab work, and miss no more than three class meetings will be awarded 1.6 continuing education units.

8. Course Outline

Module 1: Designing a Reporting Solution

Lessons

- Evaluating Business Requirements for a Reporting Solution
- Designing for Reporting Services

Lab 1: Designing a Reporting Solution

- Identifying Reporting Solution Users
- Creating a Reporting Solution Specification

Module 2: Developing a Reporting Solution

Lessons

- Developing Reports
- Developing Report Models

Lab 2: Developing a Reporting Solution

- Creating Reports from a Report Specification
- Working With Report Models

Module 3: Integrating Reporting Services with Applications

Lessons

- Integrating with Custom Applications
- Controlling Reporting Services by Using Web Services

Lab 3: Integrating Reporting Services with Applications

- Integrating Reports into an ASP.NET Application
- Integrating a Report into a SharePoint Services Solution
- Implementing a Reporting Services Web Service Client

Module 4: Deploying and Managing a Reporting Solution

Lessons

- Deploying a Reporting Services Solution
- Managing Report Distribution

Lab 4: Managing Report Deployment and Distribution

- Deploying Reports
- Managing Report Distribution

Module 5: Designing Security for a Reporting Solution

Lessons

- Designing an Authentication Strategy
- Designing an Authorization Strategy
- Designing a Secure Communication Strategy

Lab 5: Securing Reporting Services

- Configuring Authentication
- Configuring Authorization
- Configuring Secure Communications

Module 6: Optimizing Report Performance

Lessons

- Monitoring Report Execution
- Designing a Report Execution Strategy
- Scaling Reporting Services

Lab 6: Optimizing Performance

- Monitoring Reporting Services
- Optimizing Report Execution
- Scaling Reporting Services