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# DESIGNING BUSINESS INTELLIGENCE SOLUTIONS WITH MICROSOFT SQL SERVER 2014 (M20467)

Course Code: 6408

Learn to design, install, and maintain a Business Intelligence platform with Microsoft SQL Server 2014.

In this course, you will learn how to design, implement, and maintain a Business Intelligence (BI) platform with Microsoft SQL Server 2014. You'll learn to design a data warehouse and Business Intelligence solutions including: ETL, BI Delivery, Reporting Services, Excel Reporting, SharePoint Server BI along with how to monitor and optimize a BI solution.

You will learn big data concepts and analysis using Microsoft Azure HDInsight plus how to design, implement, and process big data solutions.

This course uses Microsoft SQL Server 2014.

This course incorporates material from the Official Microsoft Learning Product 20467: Designing Business Intelligence Solutions with Microsoft SQL Server 2014. This course maps to skills and knowledge measured by Microsoft exam 70-467, and in conjunction with on-the-job experience, can help prepare you for the exam.

## What You'll Learn

- Plan the components of a BI solution
- Plan a BI infrastructure
- Design a data warehouse
- Design an ETL solution
- Plan analytical data models
- Plan a BI delivery solution
- Design a Reporting Services solution
- Design an Excel reporting solution
- Plan a SharePoint Server BI solution
- Monitor and optimize a BI solution
- Plan for BI operations

## Who Needs to Attend

- BI professionals such as BI architects or database professionals who need to

design BI solutions

## Prerequisites

- A basic understanding of dimensional modeling (star schema) for data warehouses
- The ability to create Integration Services packages that include control flows and data flows
- The ability to create a basic multidimensional cube with Analysis Services
- The ability to create a basic tabular model with PowerPivot and Analysis Services
- The ability to create Reporting Services reports with Report Designer
- The ability to implement authentication and permissions in the SQL Server database engine, Analysis Services, and Reporting Services
- Familiarity with SharePoint Server and Microsoft Office applications, particularly Excel



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CLASSROOM LIVE

\$2,995 CAD

5 days

## Classroom Live Outline

### 1. Plan a BI Solution

- Elements of a BI Solution
- The Microsoft BI Platform
- Planning a BI Project

### 2. Plan SQL Server Business Intelligence Infrastructure

- Considerations for BI Infrastructure
- Plan Data Warehouse Hardware

### 3. Design a Data Warehouse

- Data Warehouse Design Overview
- Design Dimension Tables
- Design Fact Tables
- Design a Data Warehouse Physical Implementation

### 4. Design an ETL Solution

- ETL Overview
- Plan Data Extraction, Transformation, and Loads

### 5. Design Analytical Data Models

- Introduction to Analytical Data Models
- Design an Analytical Data Model
- Design Dimensions
- Enhance Data Models

### 6. Plan a BI Delivery Solution

- Considerations for Delivering BI
- Common Reporting Scenarios

- Choose a Reporting Tool
7. Design a Reporting Services Solution
    - Plan a Reporting Services Solution
    - Design Reports
    - Plan Report Consistency
  8. Design a Microsoft Excel-Based Reporting Solution
    - Use Excel for Data Analysis and Reporting
    - PowerPivot and Power View for Excel
  9. Plan a SharePoint Server BI Solution
    - Introduction to SharePoint Server as a BI Platform
    - Plan Security for a SharePoint Server BI Solution
    - Plan Reporting Services Configuration
    - Plan PowerPivot Configuration
    - Plan for PerformancePoint Services
  10. Monitoring and Optimizing a BI Solution
    - Overview of BI Monitoring
    - Monitor and Optimize the Data Warehouse
    - Monitor and Optimize Analysis Services
    - Monitor and Optimize Reporting Services
  11. Operate a BI Solution
    - Overview of BI Solutions
    - ETL Operations
    - Data Warehouse Operations
    - Analysis Services Operations
    - Reporting Services Operations



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Course Code: 6408

VIRTUAL CLASSROOM LIVE

\$2,995 CAD

5 days

## Virtual Classroom Live Outline

### 1. Plan a BI Solution

- Elements of a BI Solution
- The Microsoft BI Platform
- Planning a BI Project

### 2. Plan SQL Server Business Intelligence Infrastructure

- Considerations for BI Infrastructure
- Plan Data Warehouse Hardware

### 3. Design a Data Warehouse

- Data Warehouse Design Overview
- Design Dimension Tables
- Design Fact Tables
- Design a Data Warehouse Physical Implementation

### 4. Design an ETL Solution

- ETL Overview
- Plan Data Extraction, Transformation, and Loads

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- Introduction to Analytical Data Models
- Design an Analytical Data Model
- Design Dimensions
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    - Plan PowerPivot Configuration
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  10. Monitoring and Optimizing a BI Solution
    - Overview of BI Monitoring
    - Monitor and Optimize the Data Warehouse
    - Monitor and Optimize Analysis Services
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  11. Operate a BI Solution
    - Overview of BI Solutions
    - ETL Operations
    - Data Warehouse Operations
    - Analysis Services Operations
    - Reporting Services Operations



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PRIVATE GROUP TRAINING

5 days

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