

20467: Designing Business Intelligence Solutions with Microsoft SQL Server 2014

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Com certificação:** MCSE: Business Intelligence
- **Data:** 24 Jun. 2019 a 08 Jul. 2019
- **Preço:** 1720€
- **Horário:** Pós-laboral - das 18h30 às 22h00
- **Nível:** Avançado
- **Duração:** 35 horas

Este curso de 5 dias, destina-se ao desenho de arquitetura de soluções de Business Intelligence com Microsoft SQL Server 2012 / 2014.

Descreve como planear uma solução de Business Intelligence, desenho de um Data Warehouse, desenho de soluções ETL e Modelos Analíticos, Planeamento de Reporting em Reporting Services ou Excel, bem como monitorizar gerir e otimizar uma solução de Business Intelligence.

Este curso foi desenhado para que o formando aprenda as funcionalidades de SQL Server 2012, ou 2014, cobrindo não só as novas funcionalidades do SQL Server 2014, mas também fornecendo a base necessária das funcionalidades do produto neste contexto.

The 70-467 certification exam retires on January 31, 2021

Destinatários

Este curso destina-se a profissionais de TI, que pretendam desenhar e implementar soluções de Business Intelligence.

Pré-requisitos

Pelo menos 2 anos de experiência a trabalhar com Bases de Dados Relacionais, nomeadamente em:

- Desenho de Bases de Dados Normalizadas

- Criação de Tabelas e Relações
 - Consultas a Bases de Dados SQL Server
 - Construção de Data Warehouses
 - Construção de modelos analíticos em Analysis Services
 - Construção de Reports em Reporting Services
 - Algum conhecimento de Excel e Self-Service Business Intelligence
 - Algum conhecimento de SharePoint Server ao nível de PerformancePoint Services
 - Conhecimentos básicos de sistemas operativos servidores Microsoft
 - Recomenda-se a frequência dos seguintes cursos:
 - “20461 – Querying Microsoft SQL Server”,
 - “20463 – Implementing a Data Warehouse”
 - “20466 – Implementing Data Models and Reports”
 - ou conhecimentos equivalentes.
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Objectivos

No final da ação de formação os participantes deverão estar aptos a:

- Planear uma solução de Business Intelligence
 - Planear a infraestrutura de uma solução de Business Intelligence
 - Desenhar um Data Warehouse
 - Desenhar soluções de ETL
 - Desenho de Modelos Analíticos
 - Planear o acesso a uma solução de BI
 - Desenho de Soluções em Reporting Services
 - Desenho de soluções baseadas em Excel ou Power BI
 - Planear soluções de BI com SharePoint Server
 - Monitorização e otimização de uma solução de BI
 - Gerir uma solução de BI
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Programa

Module 1: Planning a BI Solution

This module enables students to plan the components of a BI Solution.

Lessons

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

Lab : Planning BI Solutions

After completing this module, you will be able to:

- Describe the components of a BI Solution.
- Identify the components of a BI Solution.
- Plan a BI Project.

Module 2: Planning SQL Server Business Intelligence Infrastructure

This module describes how to use plan appropriate BI Infrastructure given a set of BI Parameters.

Lessons

- Considerations of BI Infrastructure
- Planning Data Warehouse Hardware

Lab : Planning BI Infrastructure

After completing this module, you will be able to:

- Describe the components of a BI Infrastructure and where you would use them.
- Plan for the hardware requirements of a data warehouse implementation.

Module 3: Designing a Data Warehouse

This module describes how to design a data warehouse given a set of user requirements.

Lessons

- Data Warehouse Design Overview
- Designing Dimension Tables
- Design FACT tables

Lab : Designing a Data Warehouse Logical Schema

After completing this module, you will be able to:

- Design a data warehouse.
- Design dimension tables.
- Design Fact tables.
- Design a logical schema for a data warehouse.

Module 4: Designing an ETL solution

This lesson describes how to design an extract, transform and load (ETL) solution.

Lessons

- ETL Overview
- Planning for Data Extraction
- Planning for Data Transformations
- Planning for Data Loading

Lab : Designing an ETL Solution

After completing this module, you will be able to:

- Describe the components of an ETL solution.
- Design an ETL solution.

Module 5: Designing Analytical Data Models

This module describes how to design analytical data models for specific BI scenarios.

Lessons

- Introduction to Analytical data Models
- Designing Analytical Data Models

Lab : Designing Analytical Data ModelLab : Designing Dimensions and Hierarchies

After completing this module, you will be able to:

- Describe the features of an analytical data model.
- Design an analytical data model.

Module 6: Planning a BI Delivery Solution

This module describes how to choose an appropriate delivery solution for a given scenario.

Lessons

- Considerations for BI delivery
- Common Reporting Scenarios
- Choosing a Reporting Tool

Lab : Planning a BI Delivery Solution

After completing this module, you will be able to:

- Describe the components of a BI delivery solution.
- Describe some common reporting scenarios.
- Choose an appropriate delivery solution for a given scenario.

Module 7: Designing a Reporting Services Solution

This module describes how to design a reporting services solution.

Lessons

- Planning a Reporting Solution
- Designing Reports
- Planning Report Consistency

Lab : Designing a Reporting Services Solution

After completing this module, you will be able to:

- Plan for a reporting Services solution.
- Design reports for a reporting services solutions.
- Plan for consistency of reporting

Module 8: Designing an Excel Based reporting Solution

In this module students will learn how to design a reporting solution using Excel.

Lessons

- Using Excel for Data Reporting and Analysis
- PowerPivot in Excel
- Power View in Excel

Lab : Designing and Excel Reporting Solution

After completing this module, you will be able to:

- Describe key features of excel reporting solutions.
- Use PowerPivot in Excel to create reports.
- Use Power View in excel to create reports.

Module 9: Planning a SharePoint Server BI Solution

This module introduces the use of SharePoint Server as a BI solution.

Lessons

- Introduction to SharePoint Server as a BI Platform
- Planning Security for a SharePoint Server BI Solution
- Planning Reporting Services Configuration
- Planning PowerPivot Configuration
- Planning for PerformancePoint Services

Lab : Implementing a SharePoint Server BI SolutionLab : Implementing PerformancePoint Services

After completing this module, you will be able to:

- Describe the components of a SharePoint Server BI solution.
- Plan security for a SharePoint Server BI solution.
- Plan reporting solutions for a SharePoint Server BI solution.
- Describe the components of a PerformancePoint Solution.
- Implement PerformancePoint services.

Module 10: Monitoring and Optimizing a BI Solution

At the conclusion of this module you will be able to optimize and monitor a BI solution.

Lessons

- Overview of BI Monitoring
- Monitoring and Optimizing the Data Warehouse
- Monitoring and Analyzing Analysis Services
- Monitoring and Optimizing Reporting Services

Lab : Monitoring and Optimizing a BI Solution

After completing this module, you will be able to:

- Describe the options for monitoring and optimizing a BI solution.
- Be able to monitor and optimize a BI solution.

Module 11: Operating a BI Solution

At the conclusion of this module you will be able to plan management and maintenance operations of a BI solution.

Lessons

- Overview of BI Operations
- ETL Operations
- Data Warehouse Operations
- Analysis Services Operations
- Reporting Services Operations

Lab : Operating a BI Solution

After completing this module, you will be able to:

- Describe the components to be managed in a BI Solution.
- Be able to manage the components of a BI solution.

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