

KOENIG SOLUTIONS • COURSE OUTLINE

Designing Business Intelligence Solutions with Microsoft SQL Server 2014

Learn to plan, design and operate end-to-end BI solutions with SQL Server, from data warehousing and ETL to reporting and SharePoint delivery.

11

MODULES

37

TOPICS

13

HANDS-ON LABS

COURSE OVERVIEW

This course covers planning a business intelligence solution, including infrastructure and data warehouse hardware considerations. It then addresses designing a data warehouse and an ETL solution, followed by building analytical data models. Delivery options are explored through reporting services, Excel-based reporting and SharePoint Server BI solutions. The course concludes with monitoring, optimising and operating a BI solution.

WHO THIS COURSE IS FOR

BI Developers

Data Warehouse Designers

Database Administrators

Report Designers

SharePoint Administrators

LEARNING OBJECTIVES

- Plan the components and infrastructure of a BI solution
- Design a data warehouse schema with dimension and fact tables
- Plan an ETL solution covering extraction, transformation and loading
- Design analytical data models, dimensions and hierarchies
- Plan a BI delivery solution and choose a reporting tool
- Design a Reporting Services solution and Excel-based reports
- Plan a SharePoint Server BI solution and its security
- Monitor, optimise and operate a BI solution

11 Modules, 37 Topics

01

Lab

Planning a BI Solution

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

TOPICS

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

02

Lab

Planning SQL Server Business Intelligence Infrastructure

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

TOPICS

Considerations of BI Infrastructure · Planning Data Warehouse Hardware

03

Lab

Designing a Data Warehouse

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

TOPICS

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

04

Lab

Designing an ETL Solution

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

TOPICS

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

05

2 Labs

Designing Analytical Data Models

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

TOPICS

Introduction to Analytical Data Models · Designing Analytical Data Models

06**Lab**

Planning a BI Delivery Solution

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

TOPICS

Considerations for BI Delivery · Common Reporting Scenarios · Choosing a Reporting Tool

07**Lab**

Designing a Reporting Services Solution

This module describes how to design a reporting services solution.

TOPICS

Planning a Reporting Solution · Designing Reports · Planning Report Consistency

08**Lab**

Designing an Excel Based Reporting Solution

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

TOPICS

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

09**2 Labs**

Planning a SharePoint Server BI Solution

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

TOPICS

- 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

10

Lab

Monitoring and Optimizing a BI Solution

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

TOPICS

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

11

Lab

Operating a BI Solution

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

TOPICS

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

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	Planning a BI Solution	Planning BI Solutions
02	Planning SQL Server Business Intelligence Infrastructure	Planning BI Infrastructure
03	Designing a Data Warehouse	Designing a Data Warehouse Logical Schema
04	Designing an ETL Solution	Designing an ETL Solution
05	Designing Analytical Data Models	■ Designing Analytical Data Model ■ Designing Dimensions and Hierarchies
06	Planning a BI Delivery Solution	Planning a BI Delivery Solution
07	Designing a Reporting Services Solution	Designing a Reporting Services Solution
08	Designing an Excel Based Reporting Solution	Designing and Excel Reporting Solution
09	Planning a SharePoint Server BI Solution	■ Implementing a SharePoint Server BI Solution ■ Implementing PerformancePoint Services
10	Monitoring and Optimizing a BI Solution	Monitoring and Optimizing a BI Solution

#	MODULE	ACTIVITY
11	Operating a BI Solution	Operating a BI Solution

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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