KOENIG
step forward

KOENIG SOLUTIONS · COURSE OUTLINE

Data Warehousing: GDPR, ETL & OLAP

Learn to design, secure and implement enterprise data warehouses, covering GDPR compliance, architecture, ETL and OLAP.

5 Days	5	27
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course examines agile approaches to enterprise data warehousing, including the Scrum method, Extreme Programming and Lean Software Development. It then covers data security strategies, addressing trust in data, ISO/IEC 17728, the EU General Data Protection Regulation and the lifecycle of a dataset. Building on this, it explains the core building blocks of a data warehouse, its architecture and infrastructure requirements, including hardware, database software and the business, logical and physical data models. It concludes with data management and implementation topics, covering extraction, transformation and loading, dimensional modelling, data quality, matching information with users, OLAP and big data processing in cloud environments.

WHO THIS COURSE IS FOR

- **Data Warehouse Architects**
- **Data Engineers**
- **Database Administrators**
- **Data Security Officers**
- **BI Developers**
- **Cloud Data Analysts**

LEARNING OBJECTIVES

- Explain agile methods such as Scrum, Extreme Programming and Lean
- Describe sources and standards for data warehousing
- Assess data trustworthiness and apply ISO/IEC 17728 concepts
- Explain GDPR requirements and their effect on data protection
- Identify the components and dimensional structure of data warehouses
- Compare data warehouses and data marts
- Plan business, logical and physical data warehouse models
- Apply ETL processes and OLAP for data warehousing and cloud analytics

COURSE SYLLABUS

5 Modules, 27 Topics

DAY 1

01

Agile Enterprise Data Warehousing

TOPICS

Agile Manifesto · The Scrum Method · Extreme Programming Approach · Lean Software Development · Sources for Data Warehousing Standards

DAY 2

02

Data Security Strategies

TOPICS

How to determine if you can trust your data? · ISO Standard ISO/IEC 17728 · EU General Data Protection Regulation (GDPR) · Protecting the Data Warehouse · The Lifecycle of a Dataset

DAY 3

03

Data Warehouse: The Building Blocks

TOPICS

- Data Defining Features
- Data Warehouses and Data Marts
- Data Warehouse Components Overview
- Dimensional Analysis of Data
- Requirements as the Driving Force for Data Warehousing

DAY 4

04

Data Warehouse: Architecture and Infrastructure Requirements for Data Warehousing

TOPICS

Hardware and Operating Systems · Database Software · Automation of Warehousing Tasks

DATA WAREHOUSE ARCHITECTURE

Business Conceptual Model · Logical Data Model · Physical Data Model

DAY 5

05

Data Management, Security and Warehousing Implementation

TOPICS

- Data Extraction, Transformation, and Loading
- Data Design and Data Preparation-data Dimensional Modeling
- Key Elements of Data Quality
- Matching Information with the User
- On-Line Analytical Processing (OLAP)
- Big Data Processing in Cloud Environments

WHAT IS INCLUDED

Everything You Need to Succeed

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

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