KOENIG SOLUTIONS · COURSE OUTLINE

Oil & Gas Data: Geospatial Management & Security

Learn to manage, govern and secure oil and gas geospatial and master data across its lifecycle.

5 Days	5	30
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course covers master data management, including the data lifecycle, metadata, retention requirements and data governance frameworks such as DGI and DAMA. It then addresses data gathering and quality, covering data sources, well identification rules and the PPDM data model, before turning to geospatial data architecture, repositories, GIS-related databases and geomatics data quality. Master data and reference data in exploration and production are examined alongside data warehouse architecture, business intelligence and database administration. The course closes with data risks and security, including the CIA triad, security policies, standards, audits and cloud security.

WHO THIS COURSE IS FOR

- **Data Managers**
- **GIS Analysts**
- **Database Administrators**
- **Data Governance Officers**
- **Data Security Analysts**
- **E&P Data Specialists**

LEARNING OBJECTIVES

- Explain the data lifecycle and data as an enterprise asset
- Describe data governance frameworks such as DGI and DAMA
- Identify data sources and rules for well identification
- Apply the PPDM data model to data management functions
- Analyse geospatial data architecture and repositories
- Evaluate geomatics data quality and storage requirements
- Distinguish master data and reference data in E&P
- Assess data security risks using the CIA triad

COURSE SYLLABUS

5 Modules, 30 Topics

DAY 1

01

Master Data Management

TOPICS

Data Lifecycle Management · The Data as Enterprise Asset · Metadata · Data Retention Requirements

DATA GOVERNANCE FRAMEWORKS

DGI · DAMA

DAY 2

02

Data Gathering and Data Quality

TOPICS

- Data Sources
- Applicable Data Rules for Well Identification and Classification
- Professional Petroleum Data Management (PPDM) Data Model
- Data Management Functions

DAY 3

03

Geospatial Data

TOPICS

- Geospatial Data Architecture
- Geospatial Data Repositories
- Software for Geospatial Data Gathering and Analysis
- Geographic Information Systems (GIS) Related Databases
- Geomatics Data Quality
- Geospatial Data Storage, Analysis and Retention

DAY 4

04

Master Data Management and Referencing in Exploration & Production (E&P)

TOPICS

Exploration & Production (E&P) Terminology · Master Data · Reference Data

DATA WAREHOUSE ARCHITECTURE AND BUSINESS INTELLIGENCE

Business Conceptual Model · Logical Data Model · Physical Data Model

Database Administration · Data Warehouse Administration

DAY 5

05

Data Management, Risks and Security

TOPICS

- The CIA Triad - Confidentiality, integrity and availability of the data
- Data Security Policy
- Data Security Standards and Procedures
- Data Security Audit
- Data Security on the Cloud
- Interaction between the Stakeholders, Users, Clients and Government Agencies

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

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