

Advanced Data Management for Oil & Gas Professional with CDMP - 5 days (40 hours)

Day 1: Introduction to Data Management in Oil & Gas

- Introduction to DAMA
 - Overview of Data Management Body of Knowledge (DMBOK)
 - Introduction to the CDMP certification
 - Core principles of the CDMP framework
 - Importance of data management in the oil and gas industry
 - Key challenges in managing data for exploration, production, and distribution
 - Data Governance for Oil & Gas industry
 - Defining roles and responsibilities in data management
 - Data governance policies and procedures
 - Establishing data stewardship in oil and gas operations
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Day 2: Data Quality and Data Integration

- Defining data quality metrics (accuracy, completeness, consistency, etc.)
 - Ensuring data quality in oil & gas exploration and production
 - Tools and techniques for improving data quality
 - Challenges in integrating data from multiple sources
 - Basics of ETL (Extract, Transform, Load) processes for oil & gas industry
 - Best practices for managing data quality
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Day 3: Master Data Management and Metadata

- Concepts of MDM in the oil & gas industry
 - Differentiating between Reference and Master data
 - Establishing a single source of truth for critical data
 - Understanding metadata and its importance in oil & gas
 - Creating metadata standards and taxonomy
 - Tools and best practices for metadata management
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Day 4: Data Security, Risk & Compliance

- Managing data security risks in oil & gas operations
 - Understanding network security terminologies
 - Understanding different types of security processes
 - Compliance with industry standards (e.g., GDPR, HIPAA, Sarbanes-Oxley)
 - Best practices for securing operational and production data
 - Defining data security activities & Techniques from DAMA's perspective
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Day 5: Data Architecture, Lifecycle, and Certification Preparation

- Creating a scalable data architecture for oil & gas operations from DAMA's perspective
- Different types of Data Models (Conceptual, Logical & Physical)
- Differentiating between data warehouses and data lakes
- Managing the data lifecycle of oil & gas data from acquisition to archival stage
- Data retention policies and disaster recovery plans
- Review of key concepts from DMBOK
- Mock exams and practice tests for CDMP certification
- Exam tips and strategies for passing the CDMP certification