

Certified Petroleum Data Analyst Exam Preparation Training Course

30 August – 3 September 2027
San Diego

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Overview

The Certified Petroleum Data Analyst CPDA Exam Preparation Training Course is a one-week professional training program designed for petroleum data analysts, upstream data managers, subsurface information specialists, and professionals preparing for the PPDM Association CPDA certification examination. The course provides comprehensive preparation across the eight official CPDA competency areas: Data Governance, Data Analysis, Data Quality Management, Data Security, Spatial Data, Exploration and Production Life-Cycle Processes, Master Data Management, and Communication.

Participants develop practical skills in petroleum data profiling, validation, integration, well identification, spatial accuracy verification, data quality management, and information lifecycle processes. The program emphasizes real-world petroleum data management challenges, including inconsistent well records, fragmented subsurface datasets, inaccurate spatial information, and complex exploration and production data workflows.

Through practical exercises, petroleum industry case studies, competency-based practice questions, and a full-length simulated examination, participants strengthen their analytical reasoning, technical knowledge, and examination readiness.

This CPDA Exam Preparation Training Course to help professionals systematically review the official examination competencies, identify knowledge gaps, and apply industry data management principles to practical petroleum data scenarios.

Who Should Attend

- Petroleum Data Analysts and Data Management Specialists responsible for managing exploration and production datasets.
- Upstream Data Managers and Data Governance Professionals overseeing petroleum data standards, policies, and quality.
- Geologists, Geophysicists, and Petrotechnical Specialists responsible for subsurface information management.
- Well Data Analysts and Master Data Management Specialists maintaining well identification and asset records.
- GIS Analysts and Spatial Data Specialists managing geodetic information and petroleum location data.
- Database Administrators and Technical Information Specialists supporting petroleum data systems.
- Professionals preparing for the Certified Petroleum Data Analyst CPDA certification examination.

Departments and Industries

- Data Management and Enterprise Data Governance Departments
- Upstream Oil and Gas Exploration and Production Departments
- Subsurface Geology, Geophysics, and Reservoir Engineering Departments
- Information Technology and Database Management Departments
- Well Data Management and Drilling Information Departments
- GIS, Geospatial Analysis, and Technical Mapping Departments
- Petroleum Engineering and Energy Consulting Organizations
- Oilfield Services and Technical Data Management Companies
- National Oil Companies and International Energy Operators
- Petroleum Data Quality, Compliance, and Information Security Units

Learning Objectives

By the end of this course, participants will be able to:

- Interpret the official CPDA examination blueprint and explain its eight competency domains.
- Apply petroleum data governance principles, policies, standards, and stewardship responsibilities.
- Analyze, profile, transform, and reconcile petroleum datasets across exploration and production systems.
- Apply PPDM petroleum data models and industry terminology to well and subsurface information management.
- Identify and resolve data quality issues through validation rules, quality dimensions, and remediation techniques.
- Evaluate spatial data integrity using coordinate reference systems, geodetic datums, and location verification methods.
- Apply master data management principles to petroleum well identification, duplicate resolution, and golden records.
- Explain data acquisition, integration, retention, and handover processes throughout the exploration and production lifecycle.
- Apply petroleum data security, information classification, access control, and data sharing principles.
- Interpret CPDA-style examination questions and apply analytical reasoning to petroleum data management scenarios.
- Evaluate examination readiness through competency-based practice questions and a simulated CPDA examination.

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Course Agenda

Day 1: CPDA Examination Foundations, Petroleum Data Governance and Data Analysis

- **CPDA Certification Framework and Examination Blueprint:** Understanding the PPDM Association certification framework, examination structure, eight competency domains, question formats, and preparation strategies.
- **Petroleum Data Governance Principles and Industry Standards:** Applying organizational data governance frameworks, PPDM industry standards, DAMA-DMBOK principles, data ownership, stewardship responsibilities, and governance policies.
- **Petroleum Data Sources and Technical Data Classification:** Identifying structured, semi-structured, and unstructured datasets across well, seismic, reservoir, production, land, and regulatory information systems.
- **Petroleum Data Profiling and Analytical Interpretation:** Examining data characteristics, data types, completeness, consistency, units of measure, and analytical relationships across upstream datasets.
- **Data Transformation, Mapping and Reconciliation Techniques:** Understanding petroleum data loading, translation, transformation, integration, source-to-target mapping, and cross-system data reconciliation.
- **Practical Petroleum Data Analysis and CPDA Questions:** Analyzing sample well and production datasets, identifying inconsistent records, and solving competency-based examination scenarios.

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Day 2: Petroleum Master Data Management and Exploration & Production Lifecycle Integration

- **PPDM Data Models and Petroleum Data Architecture:** Exploring PPDM data modeling concepts, relational structures, petroleum data entities, attributes, relationships, and standardized terminology.
- **Well Identification and PPDM What Is a Well? Framework:** Understanding well identifiers, wellbore relationships, well lifecycle classifications, asset hierarchies, and standardized well naming conventions.
- **Petroleum Master Data Management and Golden Records:** Applying master data management principles, reference data structures, duplicate detection, record matching, authoritative sources, and golden record resolution.
- **Exploration and Production Lifecycle Data Processes:** Examining data requirements and information flows across exploration, appraisal, drilling, completion, production, intervention, and abandonment activities.
- **Seismic, Well Log and Production Data Integration:** Understanding technical data acquisition, indexing, metadata management, cross-domain integration, and information handover between upstream departments.
- **Practical Master Data and E&P Lifecycle Case Studies:** Resolving duplicate well records, mapping petroleum data relationships, and evaluating data handover scenarios using CPDA-style questions.

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Day 3: Petroleum Data Quality Management and Spatial Data Analysis

- **Petroleum Data Quality Dimensions and Validation Frameworks:** Applying accuracy, completeness, consistency, validity, uniqueness, and timeliness principles to petroleum datasets and technical information systems.
- **Data Quality Profiling, Defect Detection and Remediation:** Identifying missing values, inconsistent attributes, duplicate records, incorrect units, and abnormal values through structured quality management procedures.
- **Petroleum Data Quality Metrics and Monitoring:** Developing quality rules, validation thresholds, exception reports, remediation priorities, and technical data quality indicators.
- **Geodetic Datums and Coordinate Reference Systems:** Understanding geographic and projected coordinate systems, geodetic reference frames, coordinate transformations, and spatial metadata requirements.
- **Well Location Integrity and Spatial Data Verification:** Evaluating surface coordinates, wellbore trajectories, location accuracy, mapping discrepancies, and spatial data consistency across petroleum information systems.
- **Practical Data Quality and Spatial Analysis Exercises:** Validating petroleum records, detecting coordinate errors, interpreting spatial datasets, and solving CPDA-style data quality scenarios.

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Day 4: Petroleum Data Security, Advanced Data Analysis and Professional Communication

- **Petroleum Data Security and Information Classification:** Understanding confidentiality, information sensitivity, data classification policies, access permissions, and security responsibilities across upstream data management functions.
- **Data Protection, Retention and Controlled Information Sharing:** Applying data handling procedures, retention schedules, secure information exchange, regulatory requirements, and third-party data access controls.
- **Petroleum Data Acquisition, Loading and Lifecycle Management:** Evaluating technical data acquisition, validation, loading, storage, refinement, archival, and disposal processes across enterprise petroleum data systems.
- **Cross-Domain Petroleum Data Analysis and Reconciliation:** Integrating well, seismic, production, and reservoir information to identify discrepancies, resolve data conflicts, and support consistent analytical outcomes.
- **Technical Communication and Data Issue Reporting:** Preparing data quality reports, documenting analytical findings, communicating technical risks, and coordinating issue resolution with stakeholders.
- **Integrated CPDA Competency Case Studies and Practice Questions:** Solving practical petroleum data management scenarios combining data security, governance, analysis, quality, lifecycle processes, and communication.

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Day 5: CPDA Certification Examination Preparation and Full-Length Mock Examination

- **CPDA Examination Structure and Preparation Strategies:** Understanding the official examination format, competency weightings, question interpretation techniques, time management, and systematic approaches to answering scenario-based questions.
- **High-Weight CPDA Competency Consolidation:** Strengthening critical knowledge in Data Analysis, Data Quality Management, and Exploration and Production Life-Cycle Processes, with additional focus on remaining examination domains.
- **Full-Length CPDA-Style Mock Examination:** Completing a simulated 200-question multiple-choice examination under a four-hour time limit, covering all eight CPDA competency domains in accordance with the official examination blueprint.
- **Mock Examination Analysis and Analytical Reasoning:** Evaluating selected practice questions, interpreting answer rationales, identifying common technical misconceptions, and examining effective decision-making approaches.
- **Competency Gap Analysis and Individual Examination Preparation:** Identifying areas requiring additional study, analyzing performance across competency domains, and developing targeted preparation priorities.
- **Final Technical Clarifications and Examination Readiness:** Consolidating key petroleum data management concepts, resolving difficult examination scenarios, and reinforcing practical strategies for the official CPDA examination.

Practical Exercises

The course integrates practical petroleum data management exercises with structured CPDA examination preparation to reinforce technical knowledge and analytical problem-solving.

- **Petroleum Data Profiling and Analysis:** Examine well, seismic, and production datasets to identify missing information, inconsistent attributes, and potential analytical issues.
- **PPDM Well Identification Exercise:** Apply standardized well identification concepts to resolve duplicate records, inconsistent well names, and wellbore relationships.
- **Petroleum Master Data Management Simulation:** Evaluate source records, resolve conflicting asset information, and determine appropriate golden record structures.
- **E&P Lifecycle Data Integration Case Study:** Analyze data handover requirements and information consistency across exploration, drilling, completion, and production operations.
- **Petroleum Data Quality Assessment:** Develop validation rules, calculate quality indicators, and prioritize remediation activities across technical datasets.
- **Spatial Data Verification Exercise:** Evaluate coordinate reference systems, geodetic datums, and well location information to identify spatial inconsistencies.
- **Cross-Domain Petroleum Data Analysis:** Reconcile information from multiple upstream datasets to identify discrepancies and support technical decision-making.
- **CPDA Competency-Based Practice Questions:** Complete practical multiple-choice questions and scenario-based exercises covering the eight official examination competency domains.
- **Full-Length CPDA-Style Mock Examination:** Complete a timed 200-question simulated examination to practice question interpretation, time allocation, and examination problem-solving.

FAQs

Who should attend the Certified Petroleum Data Analyst CPDA Certification Exam Prep Course?

This course is designed for petroleum data analysts, upstream data managers, geoscientists, well data specialists, database administrators, GIS professionals, and technical information management personnel preparing for the CPDA certification examination. Participants should have practical familiarity with petroleum data management and exploration and production processes.

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Does this course cover the official CPDA examination syllabus?

Yes. The course is designed around the eight official PPDM Association CPDA examination competency areas: Data Governance, Data Analysis, Data Quality Management, Data Security, Spatial Data, Exploration and Production Life-Cycle Processes, Master Data Management, and Communication. The agenda includes practical exercises and competency-based examination preparation.

Does the course include CPDA practice questions and mock examinations?

Yes. Participants work through CPDA-style practice questions, petroleum data management case studies, and a full-length simulated examination consisting of 200 multiple-choice questions. These independently developed exercises support examination preparation and are not official PPDM examination questions.

What is the format of the official CPDA certification examination?

The official CPDA examination consists of 200 multiple-choice questions, including 180 scored questions and 20 unscored experimental questions. Candidates have four hours to complete the examination. The certification is administered independently through the PPDM Association's examination process.

What practical petroleum data management skills will participants develop?

Participants practice petroleum data profiling, master data management, well identification, data quality validation, spatial coordinate verification, technical data integration, and information lifecycle management. These exercises support practical application of the competencies assessed in the CPDA examination.

How does CPDA certification preparation differ from general data analytics training?

General data analytics training typically emphasizes broad analytical techniques, reporting, visualization, and statistical methods. CPDA preparation concentrates on petroleum industry data, upstream operational workflows, specialized data management standards, data quality, spatial information, and the professional competencies required for petroleum data management.

Is this an official PPDM-accredited certification course?

This is an independent examination-preparation training course designed around the published PPDM CPDA competency framework. The official CPDA certification is awarded by the PPDM Association following successful completion of its certification requirements and examination.

Conclusion

The Certified Petroleum Data Analyst CPDA Certification Exam Prep Course provides comprehensive preparation across the official PPDM Association examination competency domains while strengthening practical petroleum data management capabilities.

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Through structured technical instruction, petroleum industry case studies, competency-based practice questions, and a full-length mock examination, participants develop the knowledge and analytical reasoning needed to prepare for the CPDA certification examination.

Organizations benefit from improved petroleum data quality, standardized information management, stronger upstream data governance, and more effective integration of technical information across exploration and production operations.