Certified Petroleum Data Analyst (CPDA) Certification Update

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The PPDM Associations Petroleum Data Management Certification Committee is in place to design, promote and develop certification programs that will be industry recognized within the realm of Petroleum data. These will become the basis for industry based job family hierarchies as well as the guidelines that can be applied for hiring managers to recognize the “base knowledge” required for various aspects of data management within this space.
Certification is not about taking a test!
(well, it is, partly)

It’s a complete approach to \textit{professionalization} of data management.
WHAT IS A PROFESSIONAL DISCIPLINE?

Professionals in a discipline may have things in common:

• education (specific degrees, schools)
• professional development (specialized training)
• knowledge network (publications, conferences, workshops, luncheons)
• standard method for knowledge banking (Body of Knowledge)
• standardized, core skills, knowledge (Certification)
Professionalization of petroleum data management will ensure that best practices are shared and upheld within our industry, reducing risk and allowing better decision-making.
FIRST PRIORITY FOR CERTIFICATION

Common Skills and Knowledge

Foundational Skills for Data Management Professionals (3 – 5 years)

General Industry Knowledge

- Seismic
- Wells
- Production Data
- Geospatial Data
- Well tests

Depth
Experience
DATA ANALYST JOB DESCRIPTION

Knowledge

• Knowledge of data management practices specific to geotechnical data.
• Project management experience
• Oil and Gas industry experience
• Experience with Oil and Gas Upstream technical applications
• Experience with GIS data management and mapping projects.
• Database experience and familiarity with commonly used database languages.
• Linux/Unix and Windows OS and scripting experience

Skill

• Good organizational skills and attention to detail
• Ability to quickly learn, implement, and effectively support new software products
• Exceptional customer service skills
• Problem solving skills

Attitude

• Ability to effectively communicate with management and technical staff
• A team player

https://www.ppdm.org/standards-training/resources
PSYCHOMETRIC PROCESS

Psychometrics involves two major research tasks:

• the construction of instruments and procedures for measurement
• the development and refinement of theoretical approaches to measurement.

Yardstick
Testing and Training Experts
PETROLEUM DATA ANALYST

- Data Governance: 11%
- Data Analysis: 30%
- Data Quality Management: 15%
- Data Security: 9%
- Knowledge of Spatial Location Data: 9%
- Knowledge of E&P: 15%
- Master Data Management: 9%
- Communication: 2%

- Number of Scored Questions: 180
- Number of Experimental Questions: 20
  - Unscored Questions
- Total Examination Questions: 200
- Allotted Exam Time: 4 hours
- Average Time Per Question: 72 seconds
PILOT EXAM LOGISTICS

- Venture & Nexen
- Total
- RasGas
- SKK Migas
- Woodside
- Nexen
- Chesapeake
- Anadarko & Petrosys
WHAT'S NEXT…

- Review exam forms for item enemies & finalize.
- Build the compliance infrastructure for **ALL** exams.
- Legal review, trademark, certification stamp
- Exam Delivery System Established
- Build online registration and internal support mechanisms
- Launch the Certified Petroleum Data Analyst Exam
- Item bank maintenance and future exam development
UP NEXT

Common Skills and Knowledge

Foundational Skills for Data Management Professionals (3 – 5 years)

General Industry Knowledge

Seismic
Well Header
Production
Well logs
Well tests

Experience
Depth
Thanks for your attention

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http://www.ppdm.org/certification