

HOW I BECAME A CERTIFIED PETROLEUM DATA ANALYST (CPDA)



ACKNOWLEDGEMENTS



Ty Myers



Daniel Perna



ACRONYMS

- PPDM – PROFESSIONAL PETROLEUM DATA MANAGEMENT ASSOCIATION
- CPDA – CERTIFIED PETROLEUM DATA ANALYST



ABOUT THE PRESENTER

MARK EDGAR

- B. A. IN ENGLISH LITERATURE
- PROGRAMMER/ANALYST AT ELECTRONIC DATA SYSTEMS – STATE HEALTH CARE
- PROGRAMMER/ANALYST/DATABASE DEVELOPER AT DELL, INC. – COMPUTER HARDWARE
- PROGRAMMER/ANALYST AT KINDER MORGAN – OIL & GAS, 3 YEARS
- CONVERSION DEVELOPER AT ENERTIA SOFTWARE – OIL & GAS SOFTWARE, 2 YEARS AT TIME OF EXAM
- TOOK PPDM'S CPDA EXAM, OCTOBER 14, 2015



EDUCATION & BACKGROUND

	Mark Edgar	Ty Myers	Daniel Perna
Education	B.A., English Lit	B.F.A., M.M., and D.M.A. in Music Performance	B.F.A. in Visual Communication/ Graphic Design
Work Experience	Healthcare, Computer Hardware, Oil & Gas Company, Software	Academics, Oil & Gas Company	Financial Customer Service, Oil & Gas Company
Job Function	Data Analyst	Geotech	Geotech



1) Motivation

2) Application

3) Preparation

4) Invigilation

5) Continuation



1) Motivation



MOTIVATION

“CERTIFICATION, IN ITSELF, IS NOT A GOAL, BUT PROFESSIONALISM IS.”

– DR. PAUL M. PAIR, ICCP FELLOW, 1982*

GOALS OF PROFESSIONALISM:†

- PROTECTION OF THE PUBLIC
- PROFESSIONAL CREDIBILITY
- PERSONAL INTEGRITY AND COMPETENCE

Kewal Dhariwal,
CCP, I.S.P., CQF, ITCP, CBIP, CDMP, CDP

Executive Director
ICCP, Chicago
(iccp.org)



2) Application



APPLICATION

- COST

Certification fee schedule	PPDM Member	Non-member
Administration fees	\$150.00	\$250.00
CPDA Exam fees (Invigilation)	\$250.00	\$250.00
Annual renewal fees	\$75.00	\$150.00
Plus applicable taxes		



APPLICATION

- **ELIGIBILITY**

- “IN ORDER TO SUCCESSFULLY COMPLETE THE EXAM AND MAINTAIN THE CPDA DESIGNATION, CANDIDATES WILL REQUIRE A MINIMUM OF 5 YEARS OF COMBINED RELEVANT EDUCATION AND EXPERIENCE.”

- **REFERENCES**

- AT LEAST 2 PROFESSIONAL REFERENCES “WHO CAN VERIFY YOUR WORK EXPERIENCE AS IT RELATES TO PETROLEUM DATA ANALYSIS”

Source: PPDM CPDA Certification Handbook, Version 1.1; March 18, 2015



30 DAYS

MINIMUM TIME TO
PROCESS APPLICATION



3) Preparation

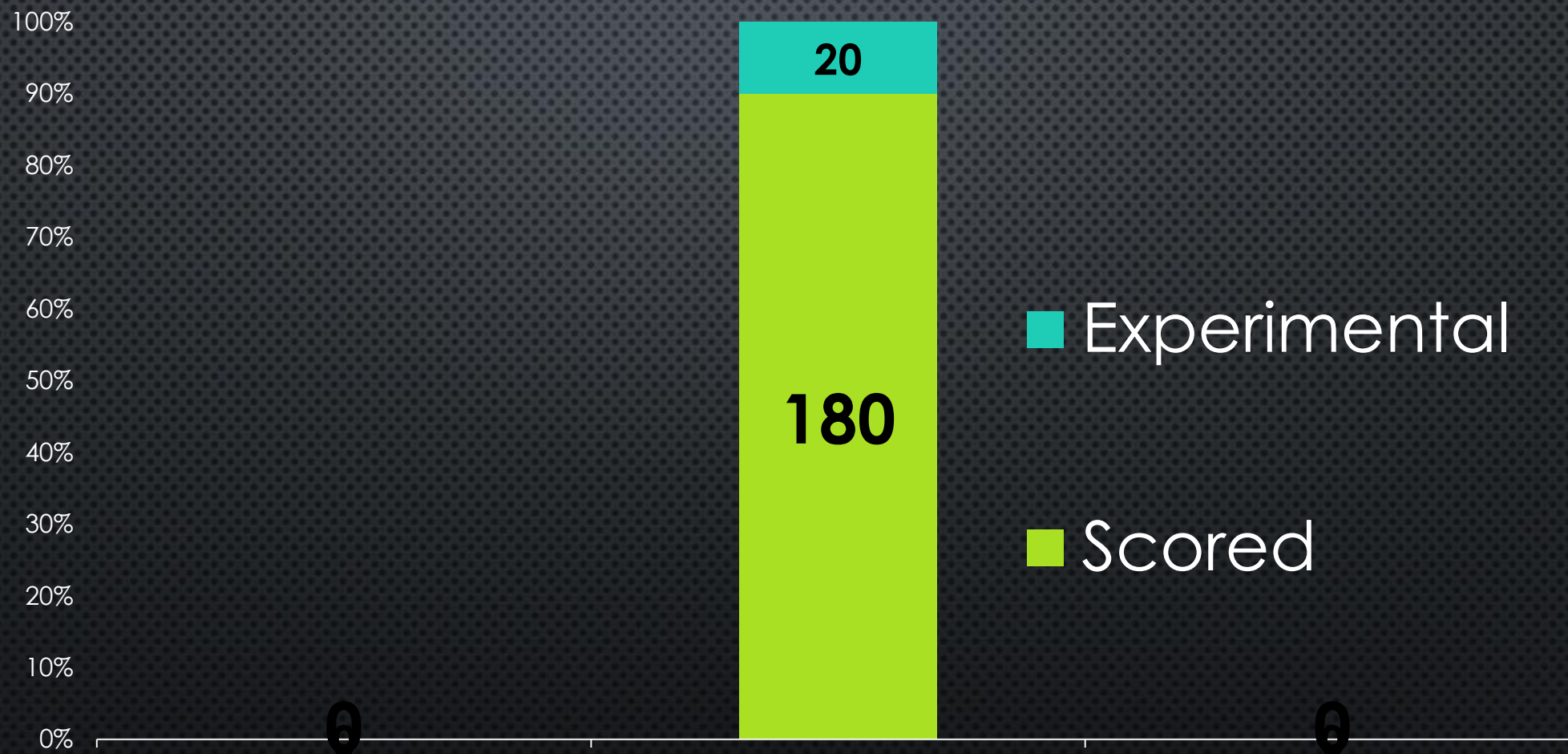


BY THE NUMBERS



200 QUESTIONS





8 CATEGORIES

Data Governance	Spatial Data
Data Analysis	Exploration & Production Lifecycle
Data Quality Management	Master Data Management
Data Security	Communication



4 HOURS FOR EXAM
72 SECONDS/QUESTION



70% TO PASS

80% WITH DISTINCTION





4-6 WEEKS
FOR EXAM RESULTS



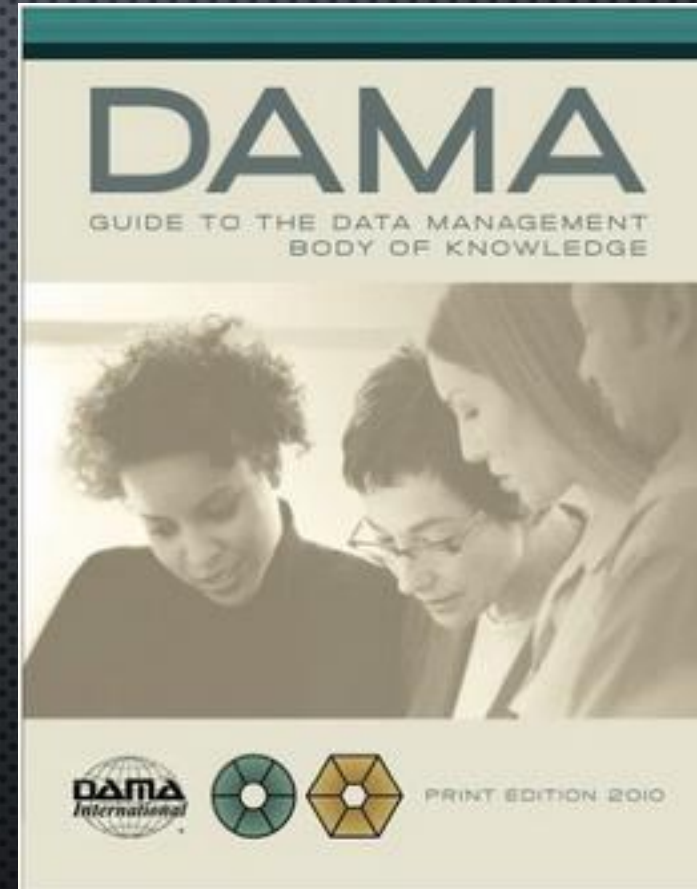
PREPARATION

Competency Name:
Data Analysis
Competency Definition:
Analyze data and oversee the maintenance of data stores and data-related solutions.
Competency Indicators:
<p>Identify appropriate sources of raw data:</p> <ul style="list-style-type: none"> • National and regulatory data repositories • Internal managed and unmanaged data stores • Data vendors • Service companies • Joint venture partners • Other <p>Investigate new sources of data from vendors and regulators.</p> <p>Describe physical and digital data.</p> <p>Describe data domains (e.g., well, seismic, production, land), including units of measure.</p> <p>Explain how data from different domains is used by an organization.</p> <p>Describe major elements of the data retention policy and schedule as applied to data.</p> <p>Describe the mapping of data across data stores, including:</p> <ul style="list-style-type: none"> • Data rules • Translation of data • Transformation of data • Metadata workflow <p>Examine and describe the data workflow for all types of data (i.e., structured, unstructured, and semi-structured).</p> <p>Cross-correlate data between different domains and data stores to ensure accuracy, consistency, and coherence.</p> <ul style="list-style-type: none"> • Create necessary reports to identify missing data, duplicates, anomalies, and availability • Build queries and filters to find physical and digital data items • Provide the correct coordinate reference system (CRS) when loading data with location information • Validate geospatial data precision • Describe processes for data loading • Ensure that loaded data adheres to the approved standards • Solve basic workflow problems with close supervision • Take ownership for metadata (i.e., data about data) management • Ensure that the metadata is loaded, so document data context, quality, and provenance • Use receipt tracking systems to ensure consistency • Provide status information about requests to management and clients <p>Document data movement procedures between data stores.</p> <p>Adhere to internal naming standards.</p> <p>Explain archiving in the data management process.</p> <p>Follow retention standards for data.</p> <p>Ensure that the history of data transformations is captured as it goes through the data lifecycle.</p> <p>Explain backup and recovery procedures in an organization.</p>
Resources:

3/18/2015

Certification Handbook
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PREPARATION

PPDM OFFICIAL SAMPLE QUESTIONS PROVIDED FOR OCTOBER 2015 EXAM:*

Q: IN A JOINT OPERATING AGREEMENT, WHICH OF THE FOLLOWING DESCRIBES AN OPERATOR?

- A) IT HAS THE LARGEST PERCENTAGE SHARE.
- B) IT PERFORMED THE ORIGINAL EXPLORATION.
- C) IT IS IN CHARGE OF THE DAY-TO-DAY OPERATIONS.
- D) IT OWNS THE LEASE OR LICENSE.



PREPARATION

PPDM OFFICIAL SAMPLE QUESTIONS PROVIDED FOR OCTOBER 2015 EXAM:*

Q: WHICH OF THE FOLLOWING IS AN ACCURATE SEQUENCE OF DATES FOR A WELL?

- A) PERMIT DATE, SPUD DATE, RIG RELEASE DATE, AND COMPLETION DATE
- B) SPUD DATE, PERMIT DATE, RIG RELEASE DATE, AND COMPLETION DATE
- C) SPUD DATE, PERMIT DATE, COMPLETION DATE, AND RIG RELEASE DATE
- D) SPUD DATE, RIG RELEASE DATE, COMPLETION DATE, AND PERMIT DATE



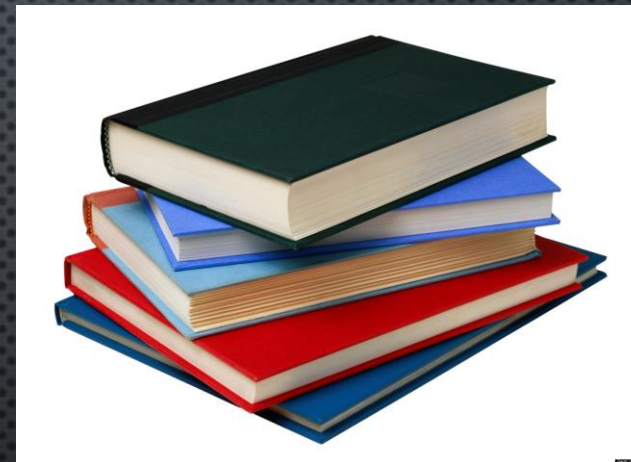
4) Invigiliation



INVIGILATION



INVIGILATION





ENERTIA SOFTWARE

5) Continuation



CONTINUATION

PROFESSIONAL DEVELOPMENT UNITS

120 Hours Professional Development Related to Petroleum Data Management Over 3 Years

- 80% - 96 hours – Education, Training, Etc.
- 10% - 12 hours – Volunteering, Presenting, Writing Papers, Etc.
- 10% - 12 hours – Work Experience – Continue Working In Petroleum Data Management Field



Important Dates

CPDA Exams

May 2017

- > March 29, 2017 - Application Deadline
- > May 10, 2017 - Exam
- > June 21, 2017 - Results Distributed

November 2017

- > September 27, 2017 - Application Deadline
- > November 8, 2017 - Exam
- > December 20, 2017 - Results Distributed



QUESTIONS



ENERTIA SOFTWARE