



WIFI: HHONORS
PROMOTION CODE:
HPO18

Welcome to the
**2018 Petroleum & Natural Gas
Continuing Education and Training
Standards Symposium**

2018 – Houston, Texas USA

Sponsored by:





Joe McClary CAE, CPLP
IACET CEO

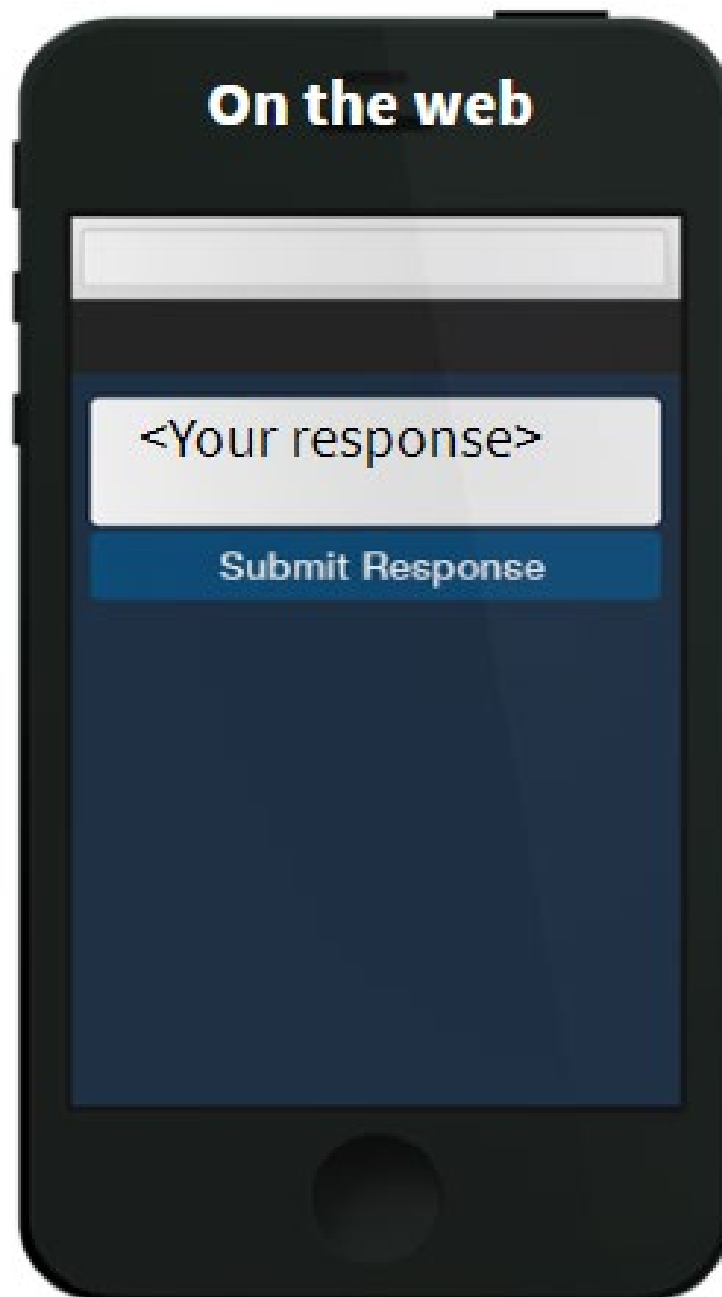


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Meet the person next to you and enter their name and something unique about them. (Hobby, pastime or some interesting fact)

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Top

Regarding the PNG industry recovery, I think _____



Respond at **PollEv.com/ipng**



Text **IPNG** to **22333** once to join, then **A, B, C, or D**

recovery is strong in
our company. **A**

recovery is
happening but slow. **B**

recovery is in sight
but hasn't started. **C**

Recovery? What
recovery? **D**



Does your organization currently follow a written standard for instructional design and delivery of your programs? If so, which one?

What do you believe is the biggest issue affecting the quality of continuing education and training today in the industry?

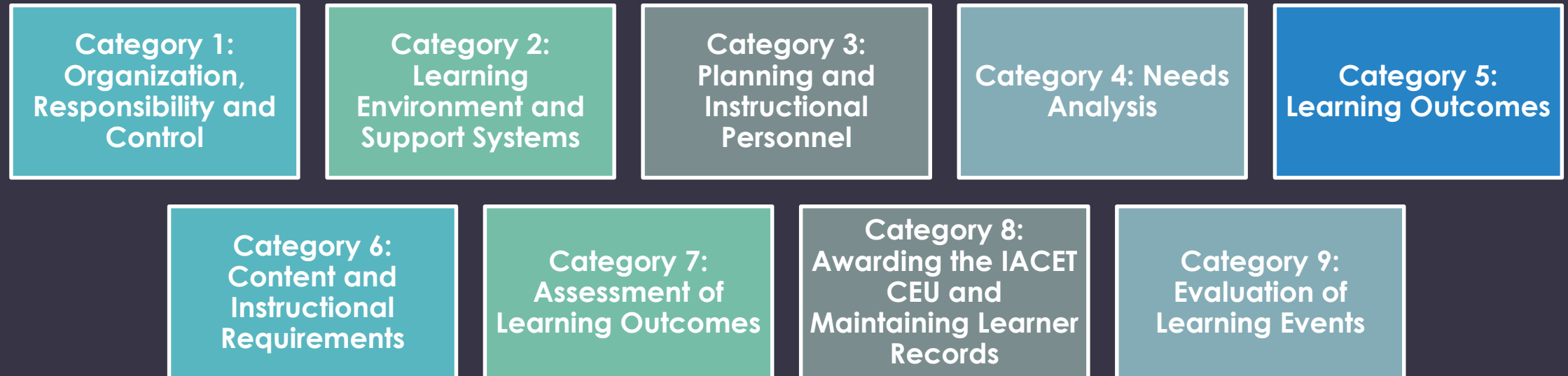
 When poll is active, respond at **PollEv.com/ipng**

Top

Continuing Education and Training Standards



ANSI/IACET 1-2018 Standard For Continuing Education and Training



Petroleum and Natural Gas Addendum

Importance of Training Standards in the PNG Industry

Dr. Alton Payne,
Chief of Standards Development
Bureau of Safety and
Environmental Enforcement



Industry Panel Keys to Implementing CE/T Standards in PNG



Members of the IACET PNG Advisory Board

PART II

Industry Panel-Keys to Implementing CE/T Standards in PNG



ASTM Learning

Ensuring Quality through
Standardizing Training

Tye Beard, Manager
ASTM Training & eLearning



ASTM INTERNATIONAL
Helping our world work better

Benefits for Standardizing Training

Benefit 1: Increase Productivity



- It increases productivity and efficiency
- Reduced learning curve



Benefit 2: Authentic Learning Experience



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Petr
oleum
|
ASTM
D5800

Learning Outcomes

By the end of this module you will be able to:

- Describe the apparatuses associated with the Woods Metal, Non-Woods Metal, Selby-Noack Volatility Test, and Automated Non-Woods Metal Noack S2 Volatility procedures.
- Identify the hazards associated with the procedures.
- Recall how to prepare and setup the apparatuses for the procedures.
- Describe the steps for calibration.
- Recall the steps required for verification.
- Describe the sample procedure or procedural steps for each type of procedure.
- Recall the process for cleaning.
- Identify the steps taken to perform the calculation and obtain results for the procedures.
- Recall the reporting process for the procedures.

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PREV
NEXT

Procedure A: Hazards (Section 8)				
Question	Question Type	Answer	Learning Outcome	Reference Section
It is assumed that anyone using this test method will either be fully trained and familiar with all normal laboratory practices, or will be under the direct supervision of such a person.	True/False	True	LO 2	8.1
Local legislative and statutory requirements are not relevant to the hazards of this test method.	True/False	False	LO 2	8.1
Appendix X3 describes one way to achieve: (select all that apply) a. A draft-free environment b. Greater safety in operation for the instruments c. Consistent, reliable test results	Multiple select	a. A draft-free environment b. Greater safety in operation for the instruments	LO 2	Note 3

Procedure A: Preparation of Apparatus (Section 9)				
Question	Question Type	Answer	Learning Outcome	Reference Section
To avoid disturbing the thermal equilibrium, the apparatus shall be assembled in a _____ - free area. a. light b. moisture	Multiple choice	c. draft	LO 3	9.1

Benefit 3: Instills Confidence



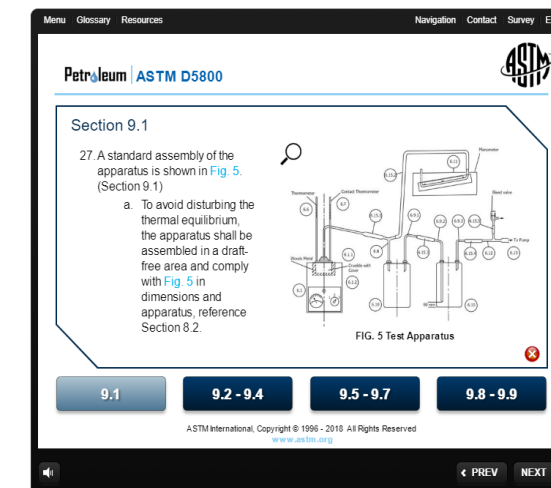
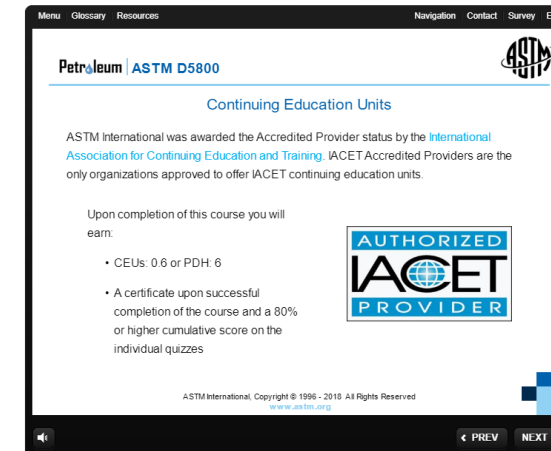
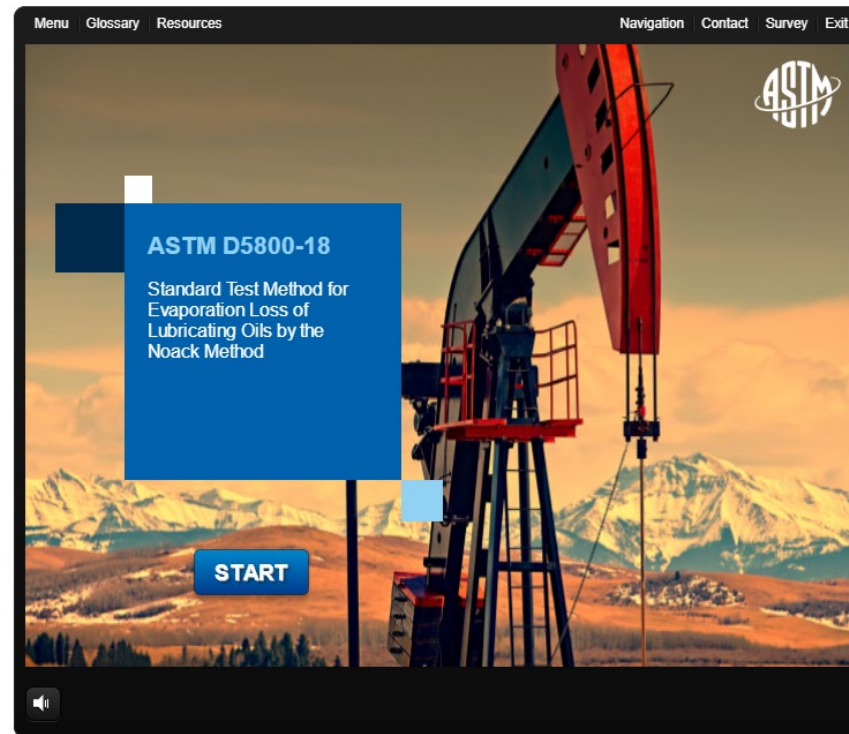
- **Provides the salesforce with the confidence needed to go to market**



Benefit 4: Keeps us on the cutting edge



- Provide our Customers with best in class learning experience



Benefit 4: Keeps us on the cutting edge



QA Process

ASTM D5800-18 Copy Editor Review
Created By Erin Skolte · Current Version

REVIEW FEEDBACK SHARE ***

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Petroleum | ASTM D5800

Section 12

The following steps apply for calculation and results. (Section 12)

57. Evaporation loss is obtained from the difference in weight before and after 1 h at 250 °C. (Section 12.1)

$$\text{Evaporation loss} = \frac{(B-A)-(C-A)}{B-A} \times 100 \quad (1)$$

where:

- A = empty crucible weight,
- B = crucible plus sample weight, and
- C = crucible plus sample after 1 h of heating.

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Comments

Add a comment...

fquinzl@gmail.com a month ago
The "where" is awkwardly centered.

Erin Skolte a month ago
Resolved

Add a reply...

fquinzl@gmail.com a month ago
The Note icon takes me to Figure 8.

Add a reply...

Benefit 4: Keeps us on the cutting edge



Help Desk Reports

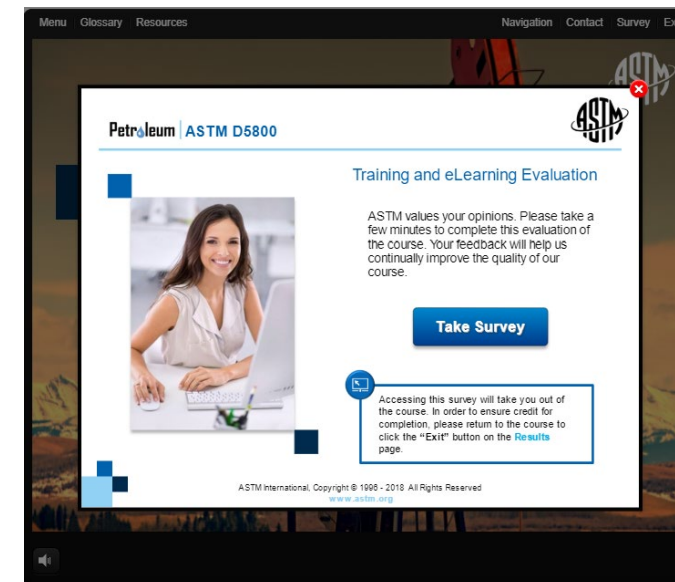
The screenshot shows the 'Zendesk analytics' interface for 'LMS Reports'. It includes a link for 'LMS tickets' and an overview of tickets that are not closed. A table lists three tickets with columns for ticket ID, status, requester, subject, assignee, and time to resolution.

ated	Ticket Id	Status	Requester	Ticket Subject	Assignee	Full Resolution
127	114396	Hold	Lockhart, Gary E	RE: [ASTM International] Re: AF 1961134 CBSA - Border Services Agency- applet issue, no URL in error msg (97579)	Gregory Crone	0 hrs
127	114670	Pending	Chris Patton	test	Gregory Crone	0 hrs
128	153660	Open	PM Office	RE: Receipt for your ASTM Web Order	Gregory Crone	0 hrs

Last data update: Thu Sep 06 2018 07:03 PDT

- Zendesk Support ticketing system
- Track Customer History
- Email Notifications

Post Training Surveys



- In course survey options
- Post training notification/ survey link

Benefit 5: Return on Expectation (ROE)



- It has tremendous returns!





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Helping our world work better

Thank you!

Tye Beard
*Manager, Technical Training and
e-Learning Services*
Email: tbeard@astm.org
Phone: 610-832-9539

For More Information:

Visit: www.astm.org/train
Email: sales@astm.org
Call: 1.877.909.ASTM (2786)

PART II

Industry Panel-Keys to Implementing CE/T Standards in PNG





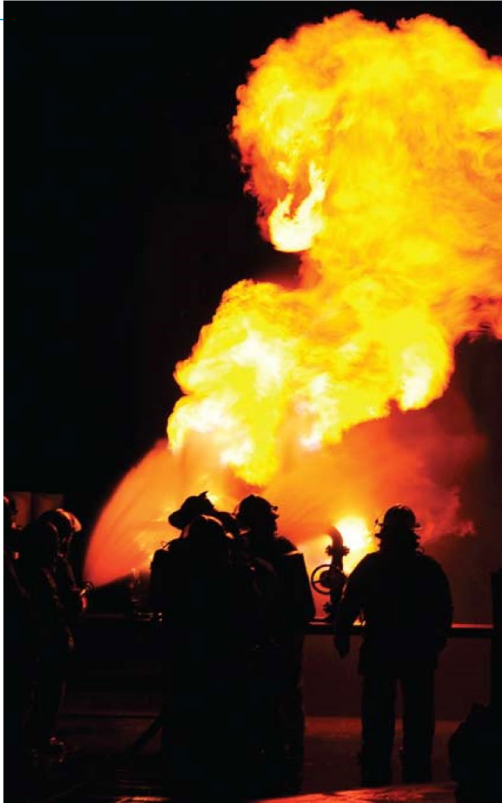
IMPLEMENTING CE/T STANDARDS

IACET-PNG Symposium

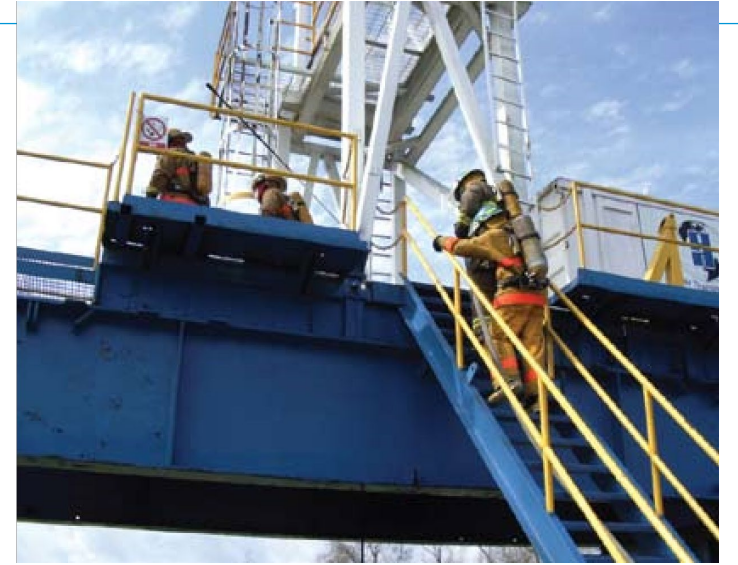
12 September 2018



Parker Training History



Parker Training Center





Training - Today



Internal Course Training

	Sessions	Attendees
2017	1209	7459
2018*	695	3052

* As of July 2018

External Training

	Attendees	% of Training
2017	336	4.3%
2018* As of July 2018	190	5.9%



Training Accreditation & Standards



- Fully Accredited Drilling Contractor In-House Program
- Qualified to Issue the Land and Offshore Endorsement



- Approved SafeLandUSA and SafeGulf Provider
- Courses are delivered in Bahasa, English, Russian and Spanish



Competence Assurance



- Key Component of IMS
- Technical Competencies
 - Rig based positions
 - Superintendents to Derrickmen
 - Mechanics & Electricians
 - HSE Advisors & Managers
 - Casing Running Crews
 - Machine Shop Personnel
- IADC Accredited: Aug 2017

The composite image illustrates the Competence Assurance framework. On the left is the IADC CAA Certificate of Accreditation for Parker Drilling, issued by Cynthia Montero and Mark Denkowski, valid from August 2017 to August 2019. In the center is a circular diagram of the Integrated Management System (IMS) with arrows labeled 'RELIABLE', 'EFFICIENT', and 'INNOVATIVE'. On the right is a photo of five workers in blue uniforms and hard hats (yellow and blue) reviewing documents on a drilling rig.

IADC CAA Certificate of Accreditation

Parker Drilling

has met the criteria established by the International Association of Drilling Contractors for the Competence Assurance Accreditation Program and is hereby awarded position based accreditation with 12 positions.

OPERATIONAL REGION:
Global

ISSUED BY:
CYNTHIA MONTERO
SENIOR PROGRAM COORDINATOR
MARK DENKOWSKI
VP - ACCREDITATION OPERATIONS

PROGRAM NUMBER: 00100659
ACCREDITATION DATE: 17 August 2017
EXPIRATION DATE: 31 August 2019

IMS INTEGRATED MANAGEMENT SYSTEM

RELIABLE
EFFICIENT
INNOVATIVE

PARKER DRILLING

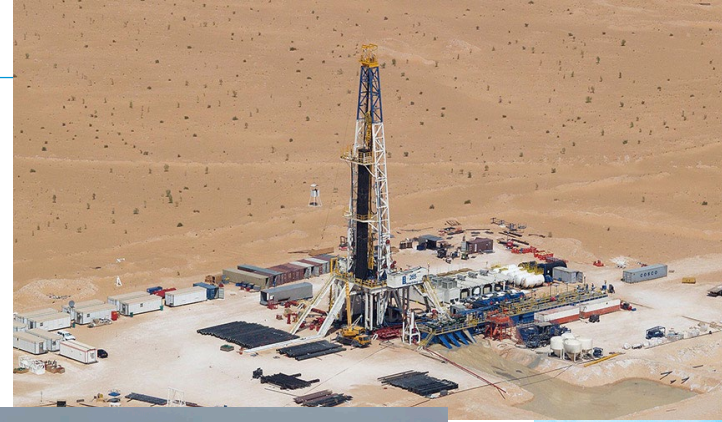
Level	Competency	Tasks Completed	% Worksheet Tasks Completed
3	Intermediate	74	100.0%
4	Advanced		
5	Expert		



Implementation and Challenges



- Regional
 - Client
 - Nationalization
 - Regulatory
- Technological
 - Brake Handle vs Gen 6
 - Land vs Off-shore
- Cultural
 - Safety
 - Procedural Discipline





David E. Villarreal
Sr. Director QHSSE&T
david.Villarreal@parkerdrilling.com



PART II

Industry Panel-Keys to Implementing CE/T Standards in PNG





BREAK – 15 minutes

2018 Petroleum & Natural Gas Continuing Education and Training Standards Symposium

2018 – Houston, Texas USA

PART 1

Introduction of the ANSI/IACET 1-2018 Standard for Continuing Education and Training with Petroleum and Natural Gas Addendum

Bryan Wollam

Wollam Petroleum Advisors
President and CEO

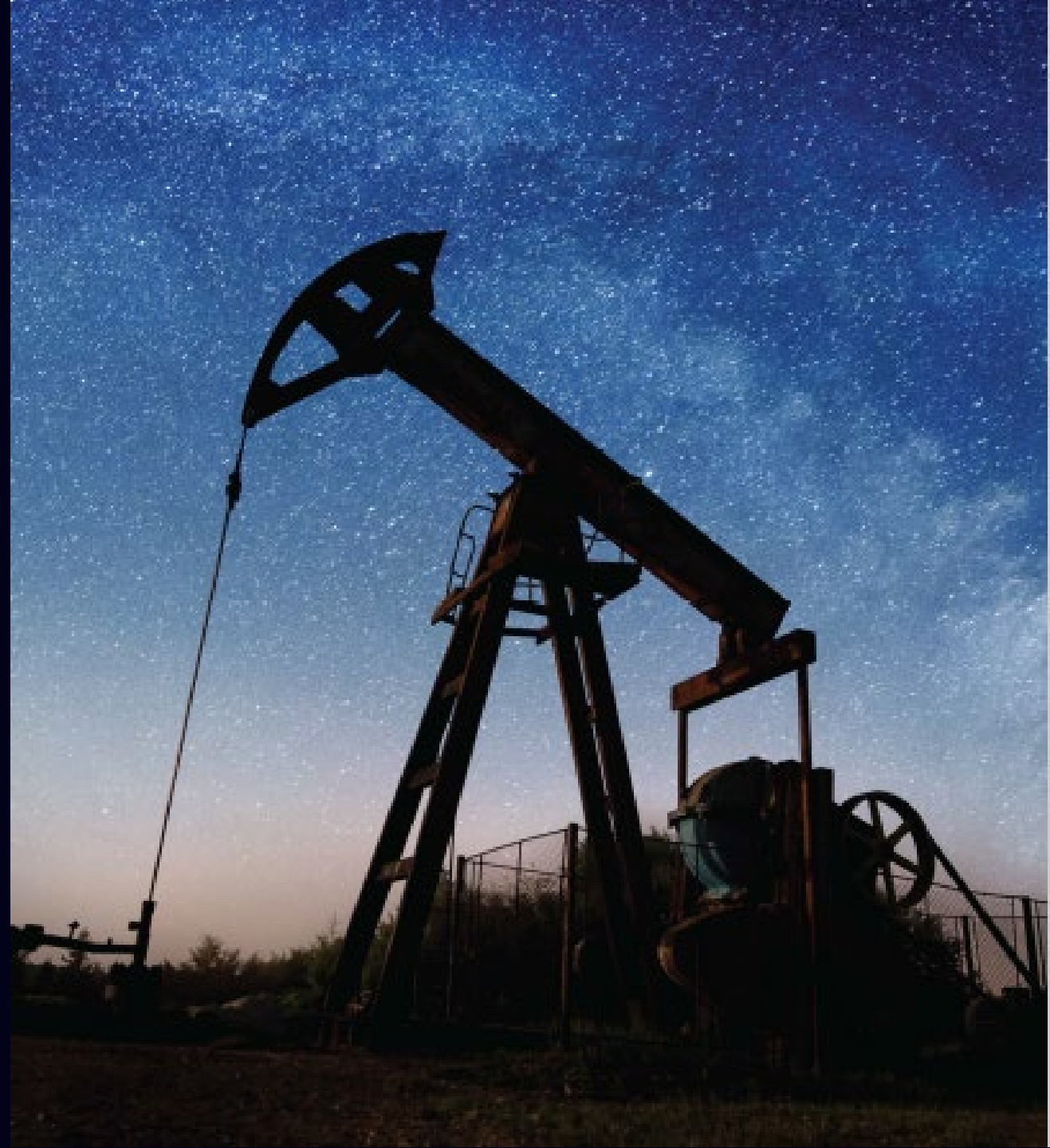


IACET-1:2018 FOR THE PETROLEUM & NATURAL GAS INDUSTRY





INDUSTRY BUSINESS DRIVERS



Macondo

THE GULF OIL DISASTER





Inconsistent Training & Competency Standards Around the Globe

Reasons for Inconsistent Competency



No standards for 3rd party training providers to follow.



Lack of Education Management Systems for training providers



No Consensus Group focused on education, training and competencies



Lack of Industry Standards that focus on education, training and competencies

Discussion Point: Top 3 Cause of NPT

What do you think the top 2 causes of NPT is according to Service Supply Organizations internal investigations?



1. Competency/ Training
2. Lack of procedures



Did You Know?

The root causes for NPT and personnel injuries are within the Service Supply Organization control, according to their own internal investigations.

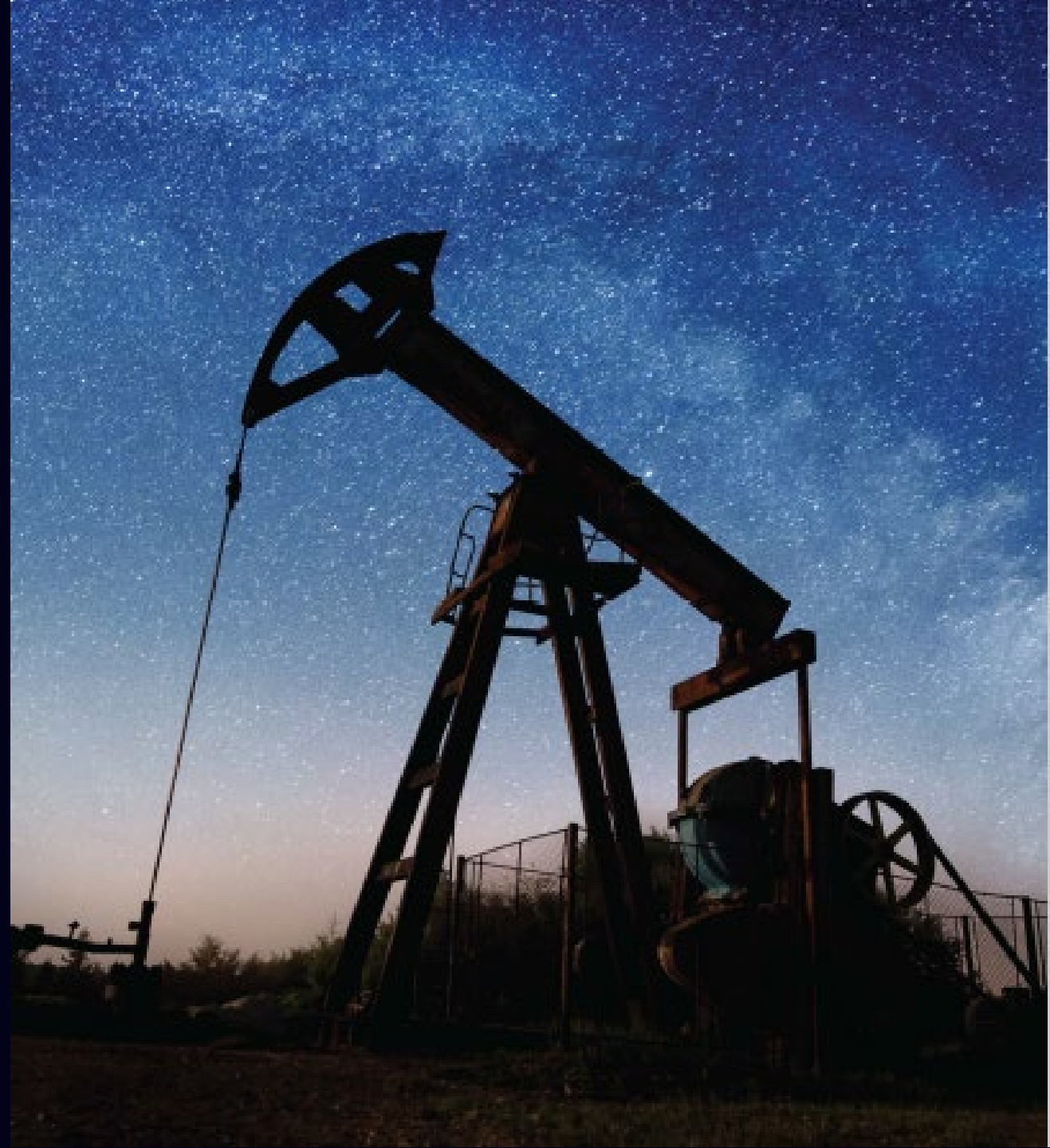


Personnel Training & Competencies are a contributing factors to many of the failures, environmental releases and injuries in the PNG Industry.

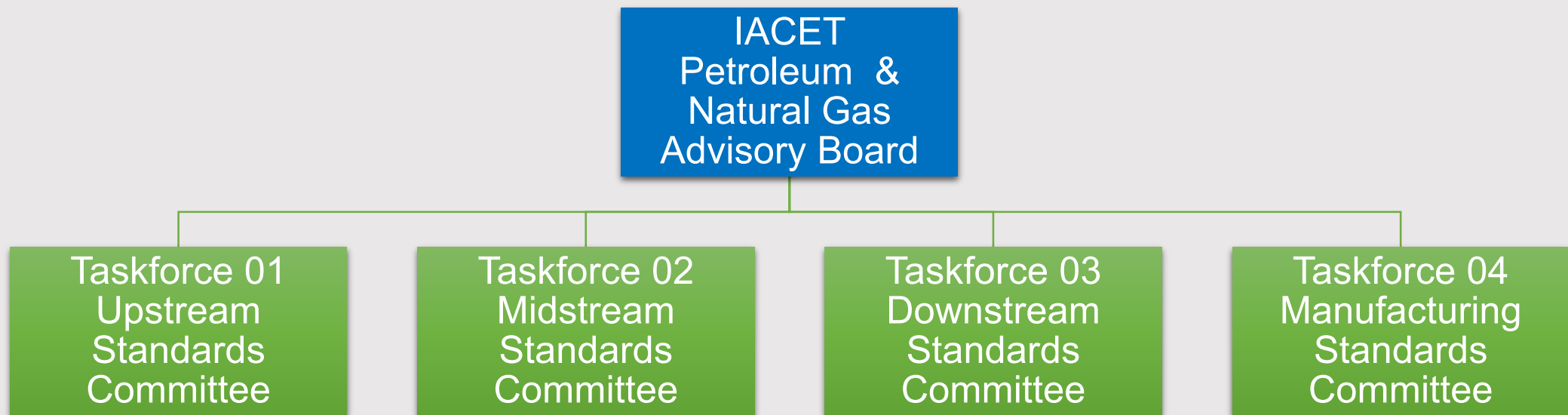
- ✓ Protecting our Community
- ✓ Protecting our Environment
- ✓ Protecting our Marine & Wildlife
- ✓ Protecting our Workers



INDUSTRY RESPONSE



IACET PETROLEUM & NATURAL GAS ADVISORY BOARD



Benefits of Standardization

Consistency in Training & Competency

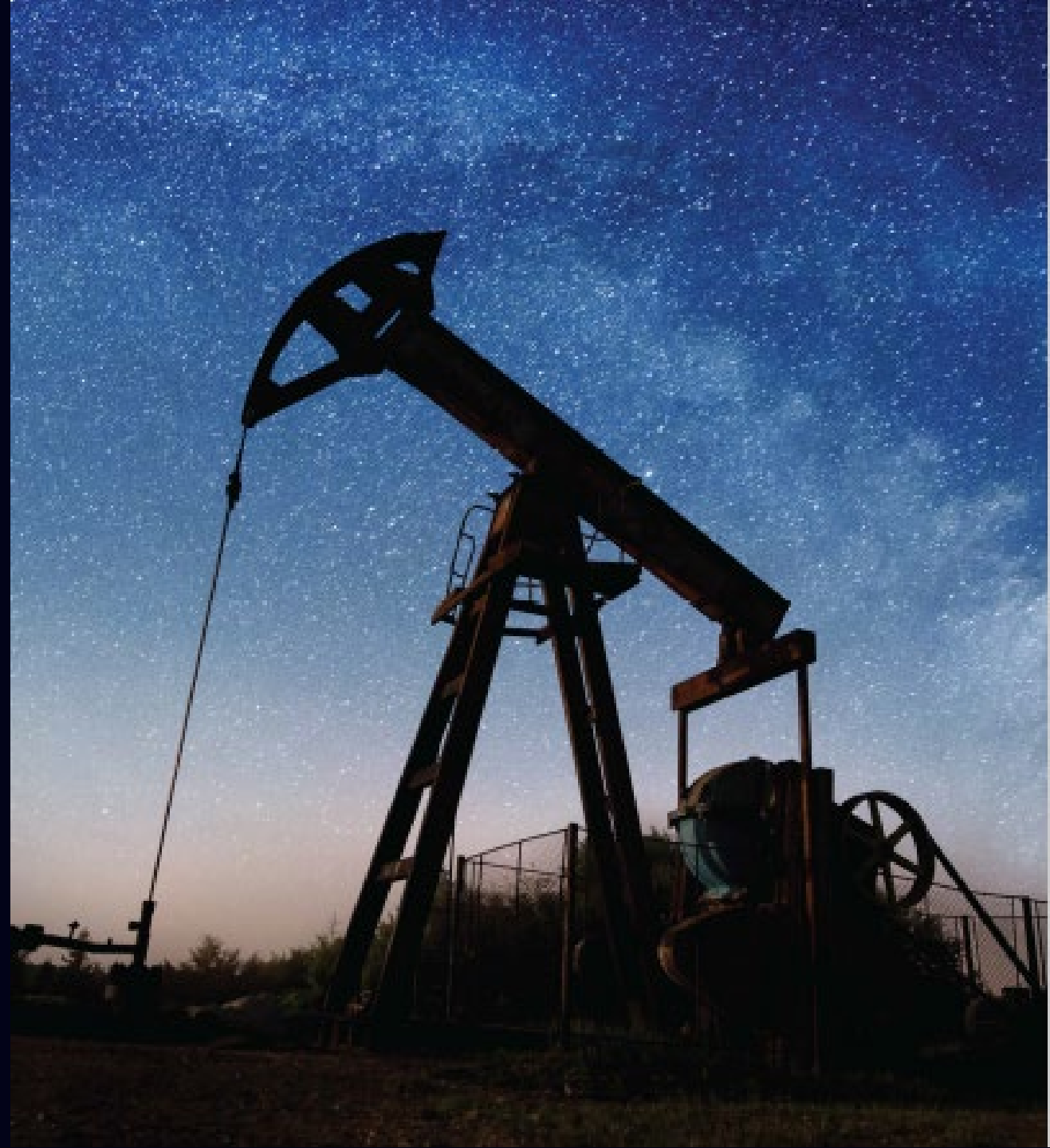
Risk Mitigation

Global Acceptances

Reduction in NPT & Injuries

Compliance to Industry Standards, Specifications & Legal Requirements

IACET 1 PNG STANDARD OVERVIEW

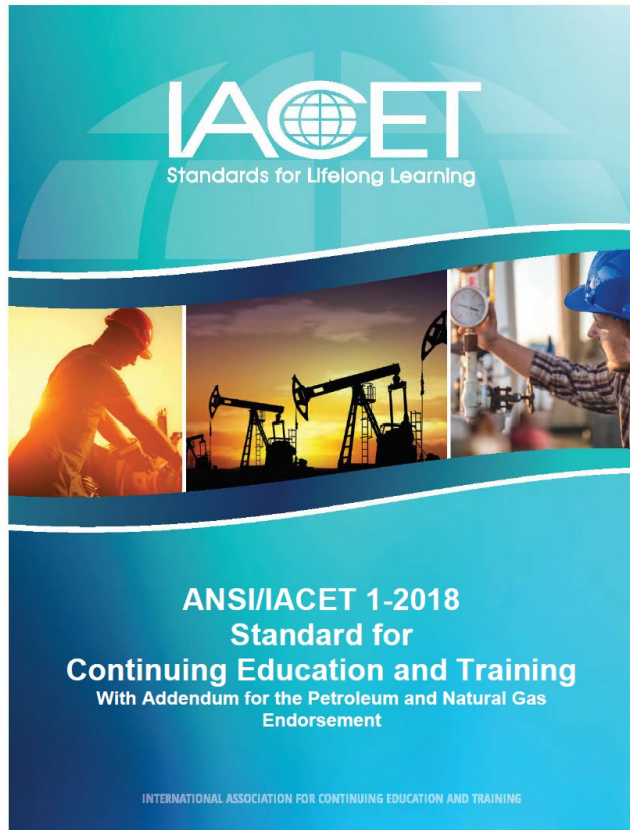


ANSI/IACET 1-2018 Standard for Continuing Education and Training



- Category 1 Organizational Responsibility
- Category 2 Learning Environment & Support Systems
- Category 3 Planning & Instructional Personnel
- Category 4 Needs Analysis & Course Design
- Category 5 Learning Outcomes
- Category 6 Content & Instructional Requirements
- Category 7 Assessment of Learning Outcomes
- Category 8 IACET CEUs and Records
- Category 9 Evaluation of Learning Events

ANSI/IACET 1-2018 with Addendum for PNG Additional Requirements



- Compliance legal & other;
- Aligning learning and working environments with safety;
- Competency for designers;
- Instructor competency, and performance evaluation & analysis;
- Accredited Train-the-Trainer;
- Outsourced training providers must meet the standard;
- In-depth Industry Needs Analysis;
- 3rd party customer satisfaction;
- Education Management System;
- Analysis of EMS, courses, exams, instructor performance;
- Annual management review;
- Provider capability & capacity;
- In-depth course designs;
- Course review and release process;
- Align learning outcomes and designs;
- Two pilots per course;
- Instructional strategies defined;
- Assessment methods align to needs analysis, design & learning outcomes;
- Assessment of validity and reliability;
- NCR process;
- Internal Audits – EMS, courses, Instructors, IACET CEU integrity;
- Course capability process measuring participant reaction, learning, results;
- Records for EMS, assessor, instructor, designer, participants, evaluation for 7 years

IACET 1 PNG Standard Helps Industry Meet Regulatory & Other Industry Standards & Specifications

Standard/Specification

API Q1

API Q2

API & ISO Product

ISO 9001

ISO 14001

ISO 45001

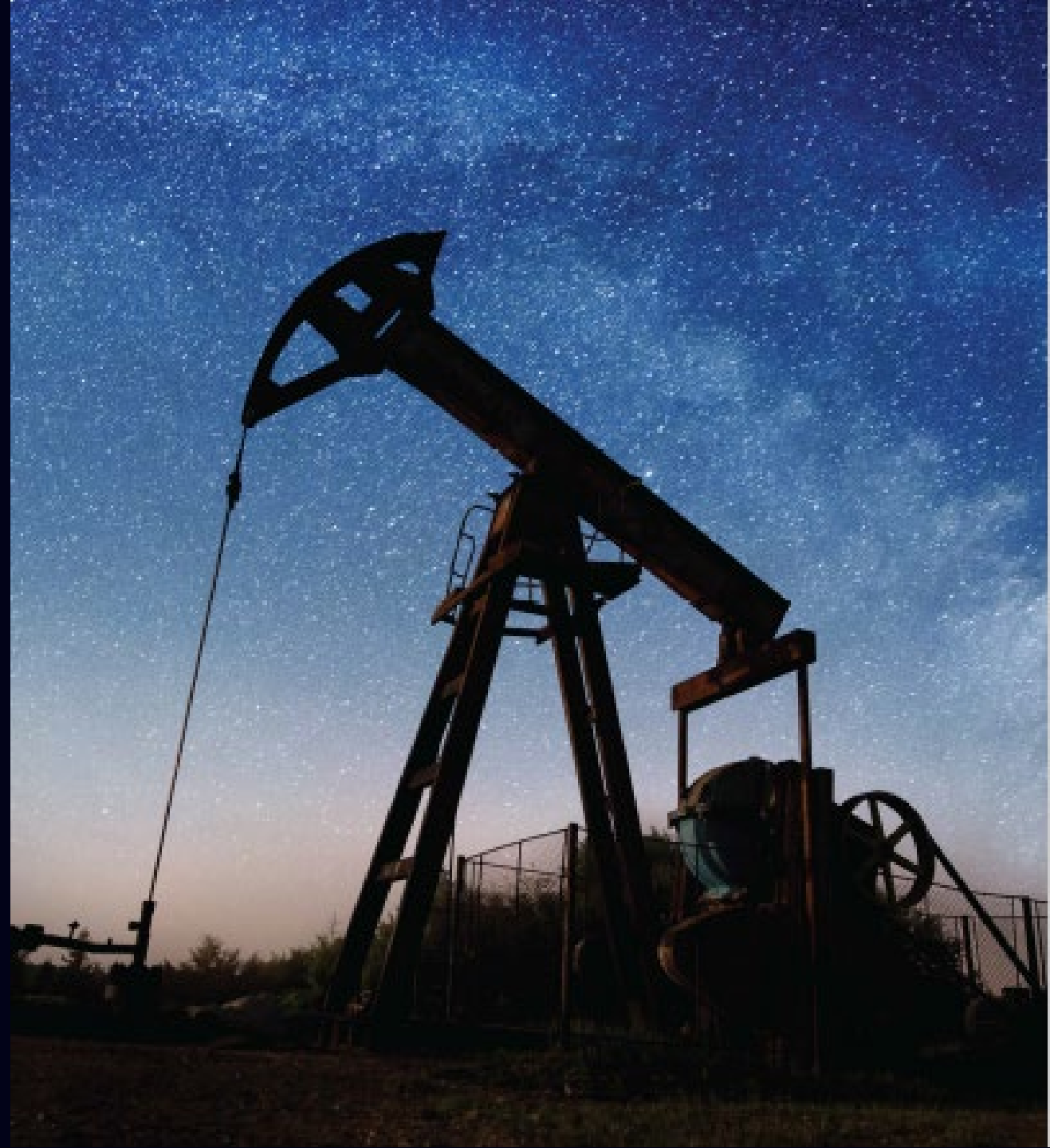
BSEE & OSHA

IADC, API, INE, ISO, etc.

Did You Know?

A fraction of the PNG Training Providers teaching technical and regulatory requirements meet an industry education & training standard.

INDUSTRY COOPERATION & IMPORTANCE OF 3RD PARTY TRAINING PROVIDER ACCREDITATION





IACET 1 PNG Cooperation

- Operators
- Service Supply Organizations
- Training Providers
- Regulators & IACET
- Education & Industry Experts

Who Backs Up Your Training

Our Industry Trade Organizations do not back up technical training or the participants knowledge.

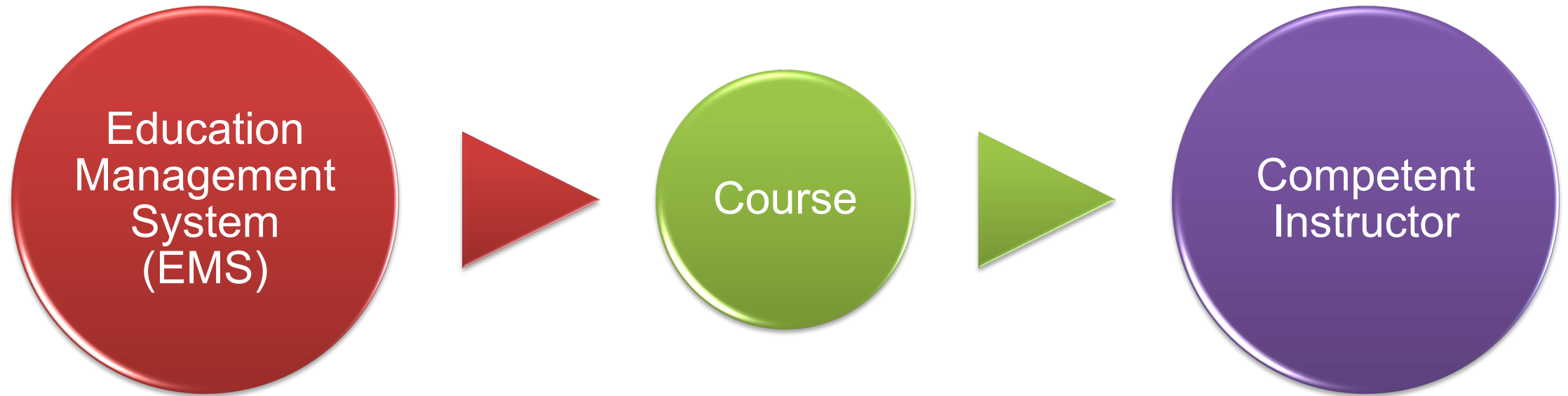
It's not their responsibility.



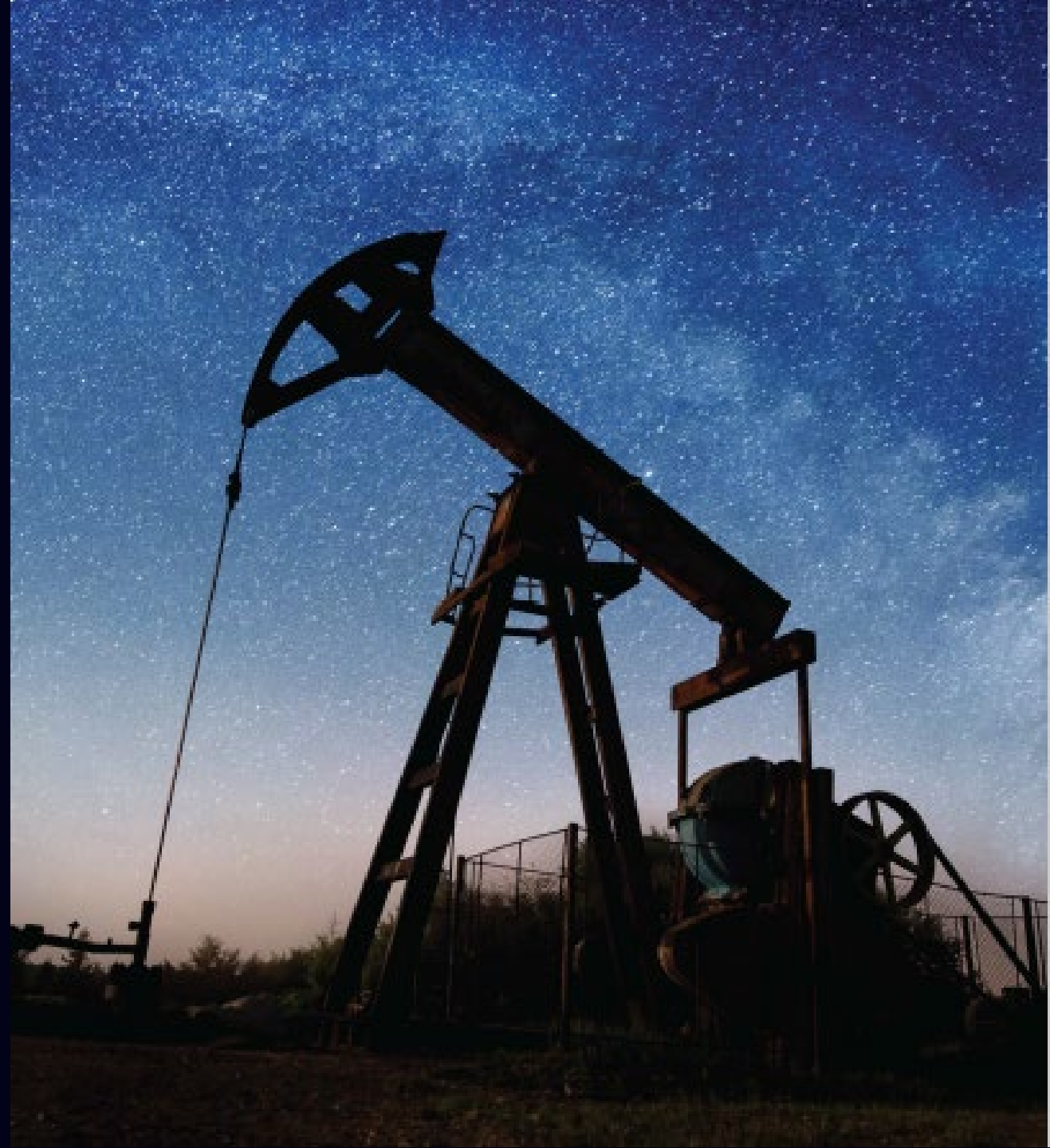
IACET 1 PNG Standard

Intent & Application

IACET 1 PNG Focus Area



FUTURE FOR IACET-PNG

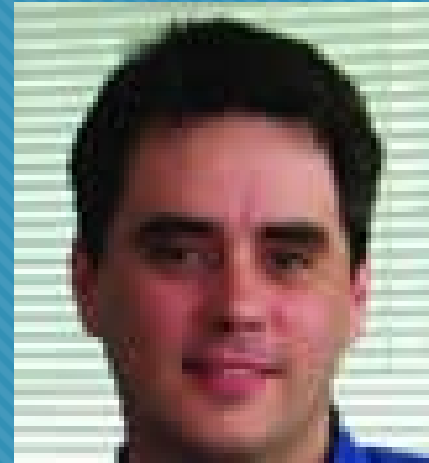


Future IACET-PNG Focus

- Industry adoption & application of the IACET 1 PNG Standard
- Trained & Competent Oil & Gas Commissioners
- Certification for 3rd Party Training Organizations
- Compliance for Operators & Service Supply Organizations
- 3rd Party Training Provider Piloting
- Development of Competency Standards & Programs

QUESTIONS

PART II
IACET Standard and
PNG Addendum
Overview, Discussion
and Q and A.





AWARDS LUNCHEON

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Darcy Chalifoux
Director of Business Development





Robert Day
Principal, Integrity Advocate

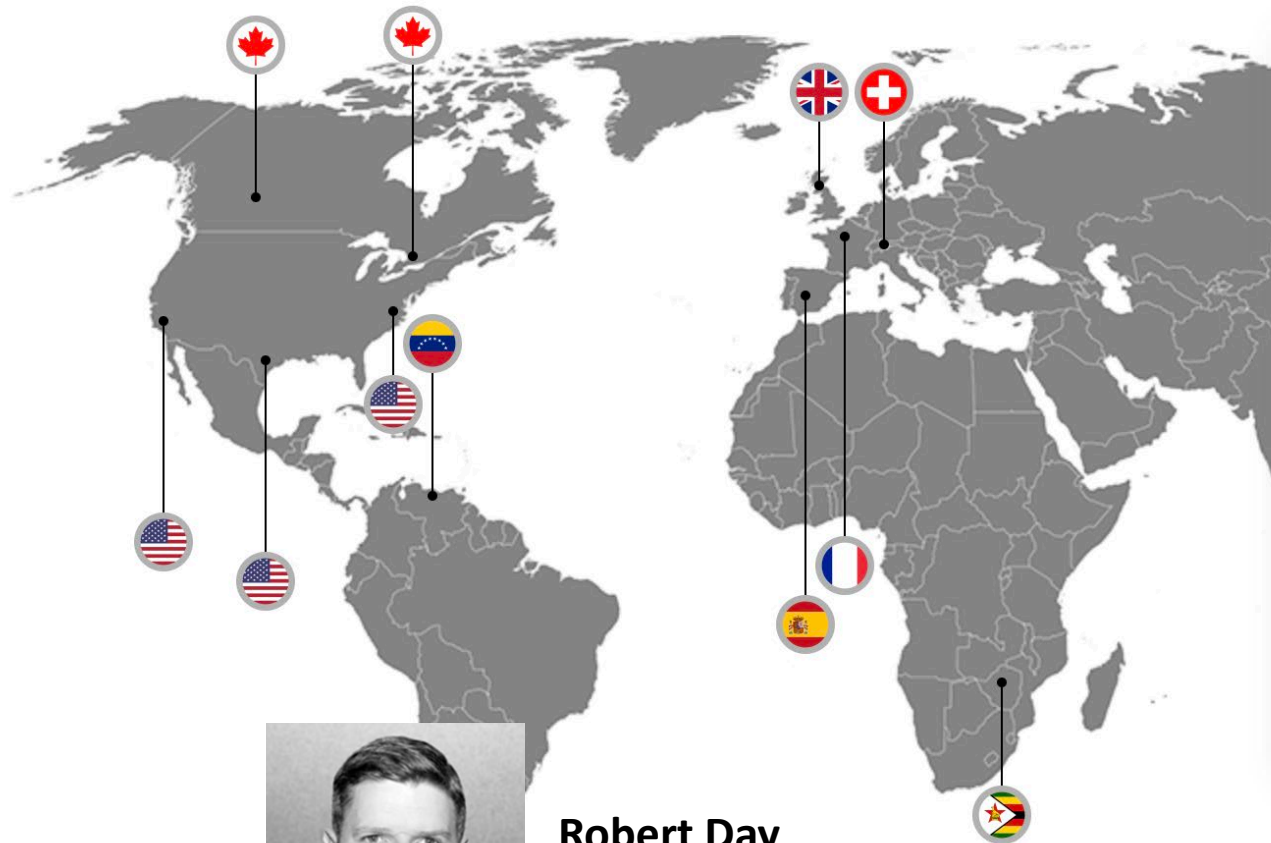




CANADIAN ASSOCIATION
OF PETROLEUM PRODUCERS



International Competency Assessment Board



Robert Day

Licensed Paralegal | Licensed Investigator
CSP, Grad IOSH, CPP, PCI,
CPMSIA, CRSP, CHRP, Fire Eng Tech

Director of Innovation and Regulatory Affairs



The I-CAB Foundation is a non-profit organization that provides online competency assessment tools with the goal of improving global workforce competency through access to cumulative competency metrics.

www.I-CAB.org

Canadian Association of Petroleum Producers (CAPP)

- Represents companies that explore for, develop and produce natural gas and crude oil throughout Canada and to the USA.
- CAPP's member companies produce about 80 per cent of Canada's natural gas and crude oil with revenues of about \$120 billion a year.
- CAPP's mission, is to advocate for and enable economic competitiveness and safe, environmentally and socially responsible performance.



A vital engine of Atlantic Canada's growing economic prosperity, the offshore oil and natural gas industry is thriving, with multiple projects, development and exploration activity.



Energy from the oil sands happens because of the human energy and innovation that goes into it. People striving to do better while working to reduce impact on the environment. That's as Canadian as it gets.



Canada's natural gas is cleaner-burning, abundant, reliable and versatile and can provide energy to consumers for the next 100-plus years. It is a vital source of energy for Canada and the world.

Training: A Common Method of Risk Mitigation



Training as a Critical Control



- Well control
- BOP
- Emergency Response
- Confined space
- Pentane BLEVE response
- DCS Control Systems
- Flaring protocols
- Plume management

Addressing the Need: Industry Guidance

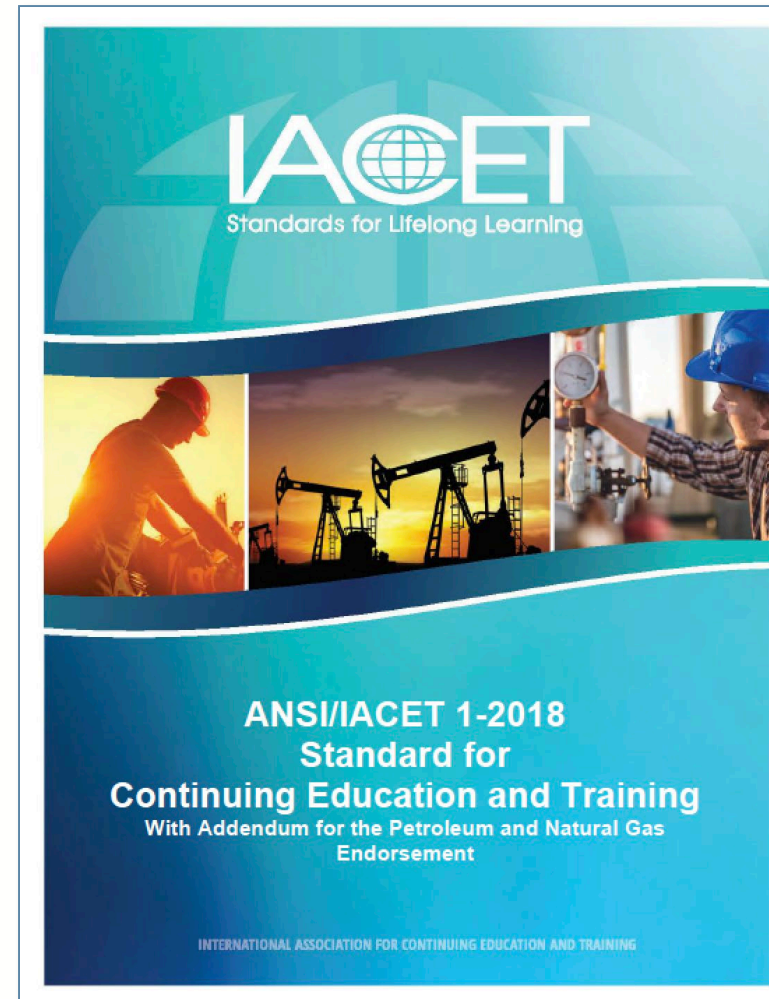
CAPP Online Training Identity Verification and Remote Proctoring (IVRP) Guide



Petroleum and Natural Gas Addendum

8.1.1 The Provider shall have a process to ensure the learner's identity is verified ... through checking a form of government ... issued identification.

8.7 The Provider shall have a process that validates attendance throughout the learning event.



Key Events

- **2016 Industry Event:** Spectra Energy notice to contractors re: Ground Disturbance training for supervisors "... security issues have been identified; specifically confirmation of the student's attendance"
- **2016 Industry Event:** Suncor Energy re: Ground Disturbance training for supervisors. "If an online version of this course is utilized, the contractor must demonstrate the course has proof of identity verification and participation through proctoring."
- **2017 Alert:** Chartered Professionals in Human Resources (CPHR) issued an [alert and criteria to membership](#) conducting online training of any regulatory, due diligence and/or operational significance.

Key Events (Continued)

- **2017 Regulatory Interpretation:** *"An online course that does not identify the participant does not meet the minimum standard."* #10114935
- **2017 Regulatory Addition (re OSHA Training):** *"only in-person training and actively proctored online training will be accepted"* - New York City
- **2018 Regulatory Interpretation:** *"The training agency should not be providing proof of training for students they cannot verify completed the course."* Request #16874685
- **2018 Industry Response:** Energy Safety Canada is now using ID verification and proctoring technology for online training offered to industry



Guide Contents

- **Utilization Rational**
 - Type of online training where most applicable
- **Privacy Considerations**
 - Use, retention and access to IVRP data/media, minimization (returning learners)

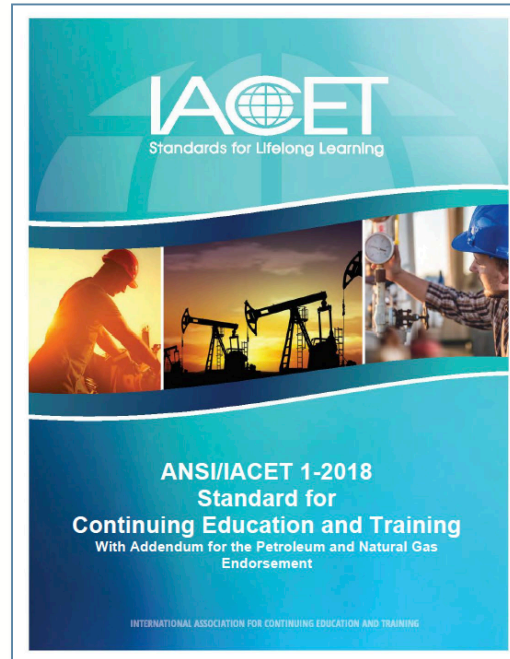




Guide Contents

- **Technological / Process Considerations**
 - Invasive applications, scheduling, LMS compatibility
- **Accessibility Considerations**
 - Mobile devices, on-demand





Thank you



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Dr. Patti Phillips

President & CEO
ROI Institute



**IACET-PNG
Honorable Mention
Training Award**



IACET-PNG
Honorable Mention
Training Award
Pipeline and Hazardous
Materials Safety Administration

 United States Department of Transportation

PHMSA

Pipeline and Hazardous Materials
Safety Administration





EXEMPLAR TRAINING AWARD SOCAR-AQS



SOCAR AQS

Integrated Drilling and Well Services



IACET-PNG

Standards for Lifelong Learning - Petroleum & Natural Gas



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Distinguished Service Award

Nuria Castellanos
TechnipFMC





BREAK – 15 minutes

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**Learner Preferences for
Continuing Engineering
Education in PNG**

Dr. Charles Baukal
Director, John Zink Institute



**Show Me the Money:
Demonstrating the ROI of
Training Programs
Dr. Patti Phillips**

**President & CEO
ROI Institute**





BREAK – 15 minutes

2018 Petroleum & Natural Gas Continuing Education and Training Standards Symposium

2018 – Houston, Texas USA

Group Discussions and Speaker Q and A



GROUP ACTIVITY – BY TABLE

- Summarize the presentations you heard with you colleagues and come up with three questions to ask the presenters (Phillips and Bakaul)? Be prepared to share.
- Develop a list of three problems your organization deals with that you would like to receive collective wisdom and ideas about?

Closing Remarks and
How to Get Involved
Bryan Wollam
and **Joe McClary**



Please complete the symposium evaluation



<https://www.surveymonkey.com/r/IACETPNG>