IHRDC

e-Learning and Knowledge Solutions

IPIMS

Product Development and Content Updates

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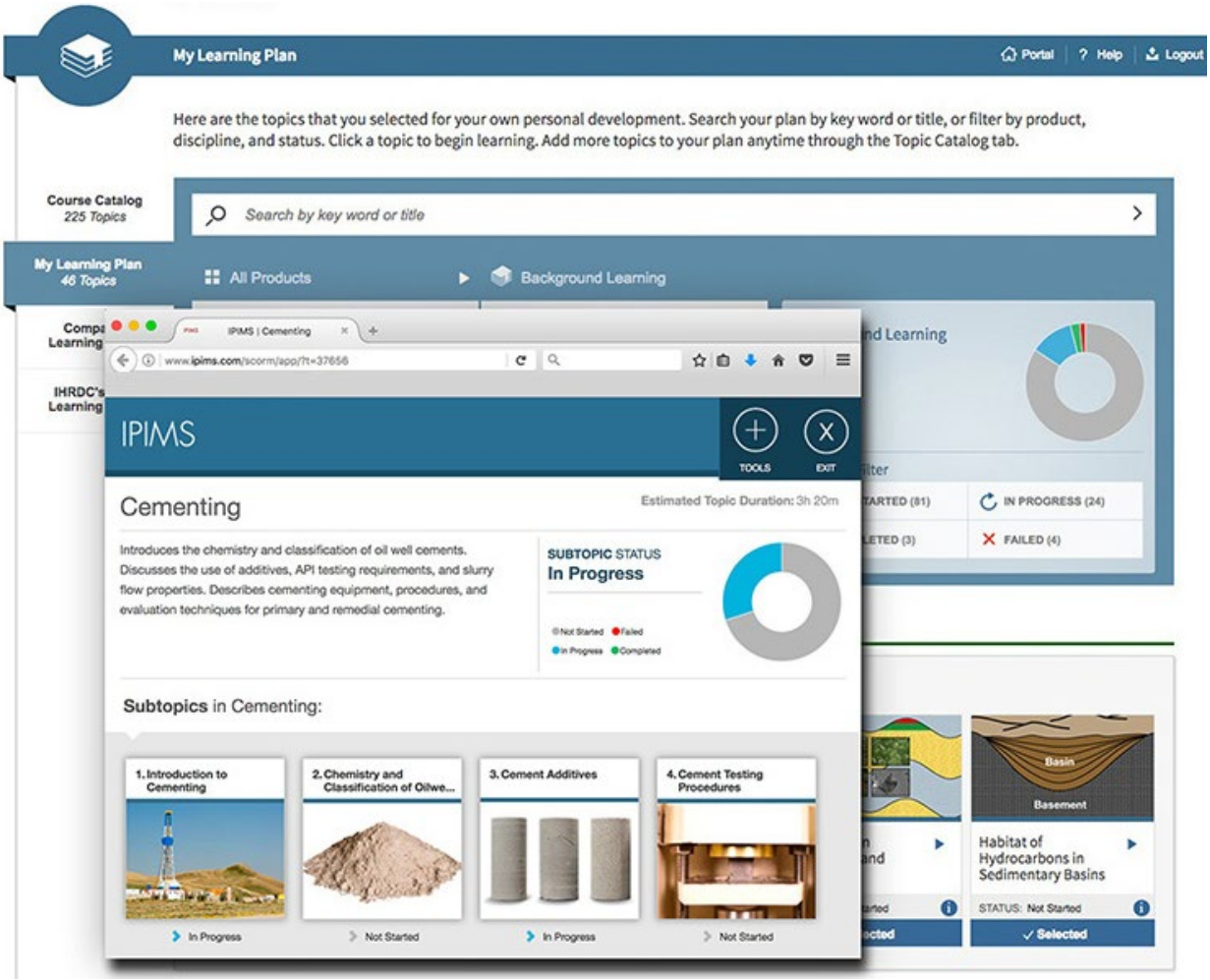
Contents

What is IPIMS?

IPIMS is IHRDC's award-winning e-Learning solution developed in partnership with industry experts from 10 major oil and gas companies, covering all areas of upstream petroleum technology. If you are looking to build or expand the competencies of your exploration and production professionals, your solution is IPIMS.



With its extensive content, award-winning video, and rigorous assessments, IPIMS is flexible enough to adapt to your specific needs. Whether you want to train 5,000 people in one E&P topic area, or 50 people in 20 topic areas, IPIMS can meet your unique learning and development objectives.

Our IPIMS solution delivers two levels of learning. With Background Learning, your users gain knowledge, and procedural acumen, and with Action Learning, they master practical applications through real-life assignments.

Together, these two types of learning in Upstream Technology can help your learners progress through the Awareness, Basic Application, and Skilled Application levels of competency, to meet your E&P technology and practice needs.

IPIMS Development Planning

In 2015 IHRDC committed to a major long-term investment of resources to thoroughly renew IPIMS content in all four of its major disciplines. Since then, we have completely updated 61 of 148 Topics with current technological content, new graphics, videos, animations, interactive content, Knowledge Checks, and multi-format assessments.

Each year, we use several criteria for prioritizing Topics for updating, which include:

- How outdated is the topic? Some subject areas change more rapidly than others.
- How important is the topic to our clients? Course usage statistics show popularity of candidate topics.
- What are we hearing directly from clients? We review the comments and star ratings that we receive from clients who have taken the courses. We also proactively solicit input on the topic areas that are most important to clients.

Each Topic update requires a multidisciplinary team and several phases of development:

1. Subject matter experts (IHRDC discipline managers and external industry experts) review the content and propose the scope of the required updates.
2. The SME researches and updates the content, and creates knowledge checks, assignments, and assessments.
3. The revised content is thoroughly reviewed and modified as needed by the IHRDC discipline manager.
4. All parts of the updated topic then go through a rigorous instructional design process, a final review by the discipline manager, and proofreading.
5. Graphic designers create new graphics and animations.
6. New videos are scripted, storyboarded, and produced by a team of animators and video editors.
7. The IPIMS production staff converts the final content for online presentation.
8. After thorough integration review and QA, the updated IPIMS Topic is released.

2024-2025 IPIMS Releases

	Released 2024	2025 Plan*
Petroleum Geophysics		
Petroleum Geology	Habitat of Hydrocarbons in Sedimentary Basins *(Sept 2024)*	Subsurface Facies Analysis *(June 2025)* Sandstone and Carbonate Facies Delineation *(December 2025)*
Petroleum Engineering	Oil and Gas Pipelines *(July 2024)*	
Formation Evaluation	Specialized Well Log Interpretation *(July 2024)*	Borehole Imaging *(April 2025)* Sampling and Analysis of Drilled Cuttings *(December 2025)*
Multi-Disciplinary		Reservoir Management Fundamentals

*The 2025 Release Plan is subject to change due to input from clients and resource allocation.

Updated/New Topics Released to Date

Petroleum Geology

- Fundamentals of Petroleum Geology
- Geologic Cross Sections
- Habitat of Hydrocarbons in Sedimentary Basins
- Hydrocarbon Generation and Migration
- Hydrocarbon Properties
- Hydrocarbon Traps
- Petroleum Geomechanics
- Plate Tectonics and Sedimentary Basins
- Prospect Generation
- Reservoirs
- Sandstone and Carbonate Facies Delineation
- Structural Geology
- Subsurface Environment
- Subsurface Facies Analysis
- Subsurface Mapping

Petroleum Geophysics

- 3D and 4D Seismic Modeling, Design and Acquisition
- 3D and 4D Seismic Processing, Interpretation, and Visualization
- Basic Seismic Interpretation
- Basic Seismic Processing
- Fault Interpretation
- Fundamentals of Exploration Geophysics
- Gravity and Magnetics
- Hydrocarbon Indicators
- Introduction to Seismic Acquisition Planning
- Introduction to Seismic Acquisition Techniques
- Seismic Contouring
- Seismic Interpretation of Shales
- Seismic Pulse
- Seismic Reflection
- Seismic Stratigraphic Modeling
- Signal Theory: A Graphical Introduction
- Velocity Interpretation and Depth Conversion
- Waveform to Geologic Model

Petroleum Engineering

- Artificial Lift Methods
- Basic Completion Design and Practices
- Cementing
- Coiled Tubing Well Intervention
- Completion Equipment
- Electric Line Well Intervention
- Fluid Flow and the Production System
- Hydraulic Fracturing
- Oil and Gas Pipelines
- Overview of Rigless Well Intervention
- Perforating
- Resources and Reserves Estimation
- Risk Analysis Applied to Petroleum Projects
- Slickline Well Intervention

Formation Evaluation

- Borehole Imaging
- Core Analysis
- Coring
- Dipmeter Surveys
- Logging Equipment and Procedures
- Logging Tools and Well Logs
- Low Resistivity and Low Contrast Pay Interpretation (NEW)
- Overview of Formation Evaluation
- Sampling and Analysis of Drilled Cuttings
- Specialized Open and Cased Hole Logging Tools and Well Logs
- Specialized Well Log Interpretation
- Well Log Interpretation Essentials

Multi-Disciplinary

- Drilling and Well Completion Fundamentals
- Introduction to Unconventional Resources
- Production Technology Fundamentals

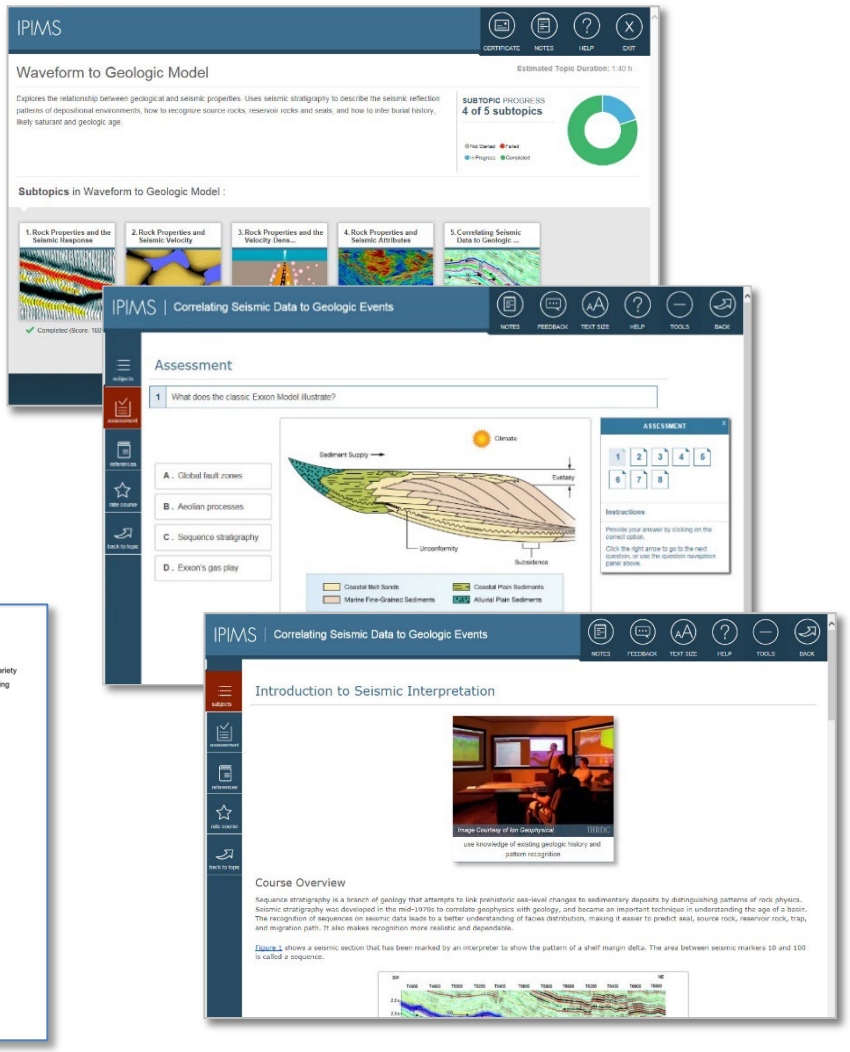
IPIMS Features & Functionality

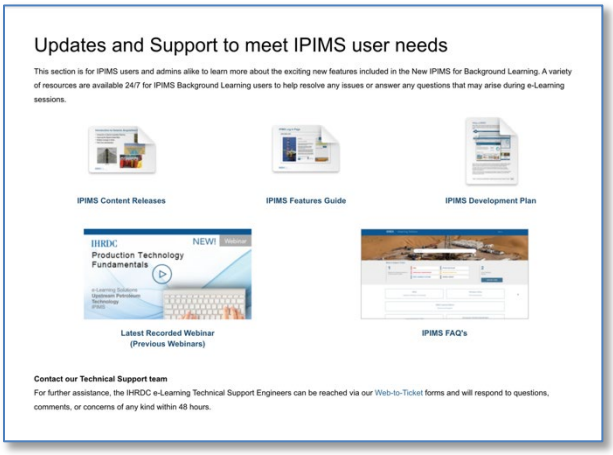
The IPIMS interface, drawing on the industry's best instructional design methodologies and technological developments, provides a user-friendly and enjoyable e-Learning experience.

The assessment engine employs multiple question formats, such as drag and drop image identifier, sequencing, and multiple response. In addition, the assessment engine randomly selects the subject-level assessment questions a learner receives from a pool of questions for the course.

Features

- Tablet-friendly interface
- iOS and Android compatible
- Interactive Content
- Knowledge Checks
- Multiple format assessment questions
- Scenario-based Assignments
- Draft Pad
- Contextual Help
- Remastered videos
- IPIMS Resource Center includes: Tutorial Videos, PDF Guides, and FAQs



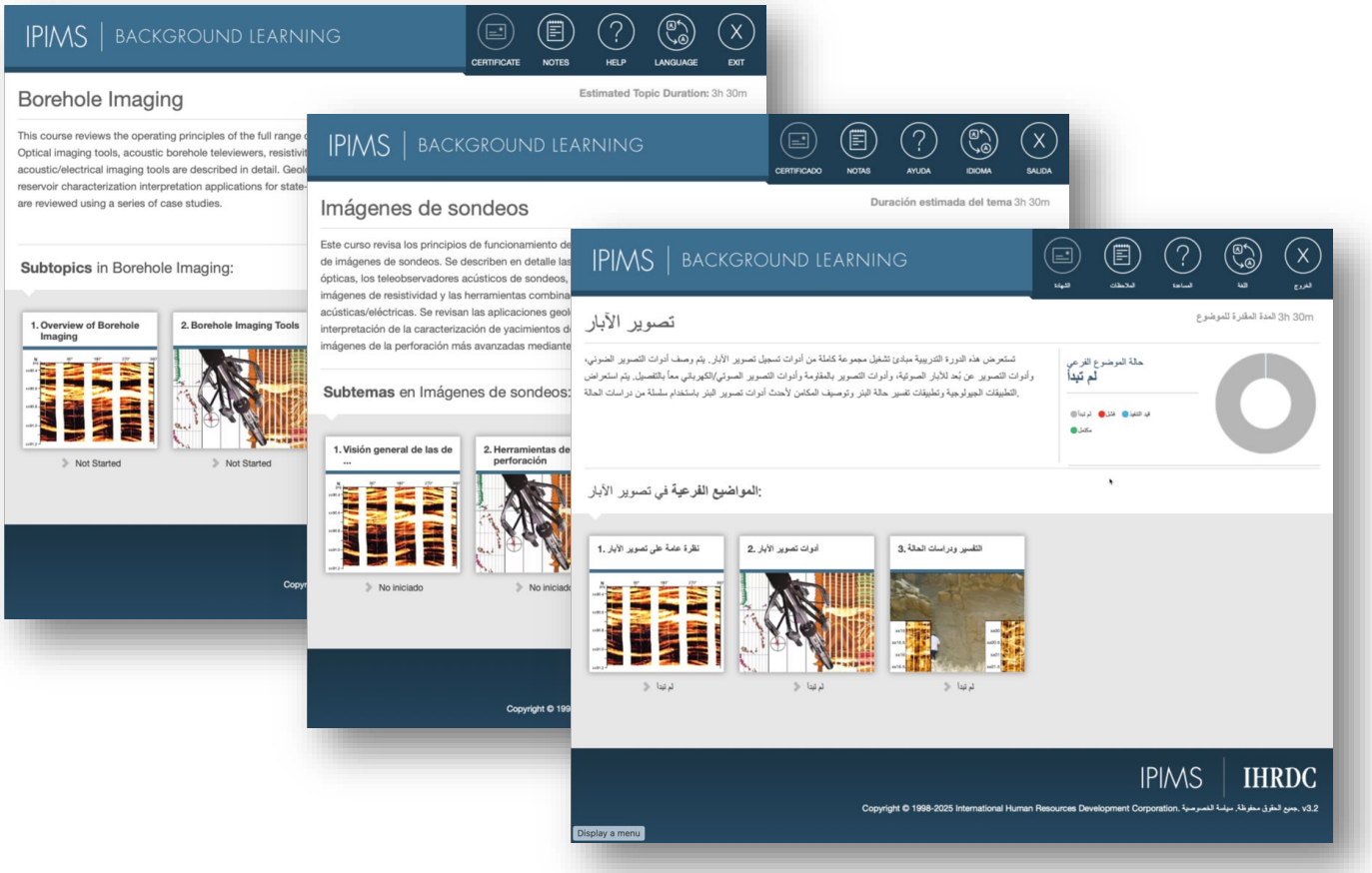


New! Translation Feature Launched

IHRDC is proud to introduce a cutting-edge, AI-powered **real-time translation feature**, designed to provide seamless multilingual access to our e-Learning content. Leveraging **DeepL** and **Google Cloud Translation APIs**, this new tool ensures **context-sensitive, high-quality translations** tailored to the unique needs of the oil and gas industry.

Key Benefits:

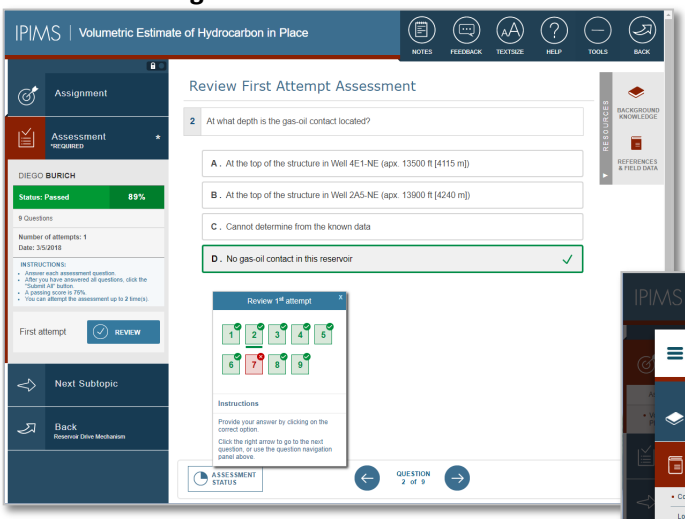
- Instant Global Access; Immediate translation of content for learners worldwide.
- Support for 190+ Languages; Including Arabic, Spanish, Portuguese, French, and Turkish.
- Contextual Accuracy: AI-driven glossary support and integration of industry-specific terminology ensure precise, meaningful translations.



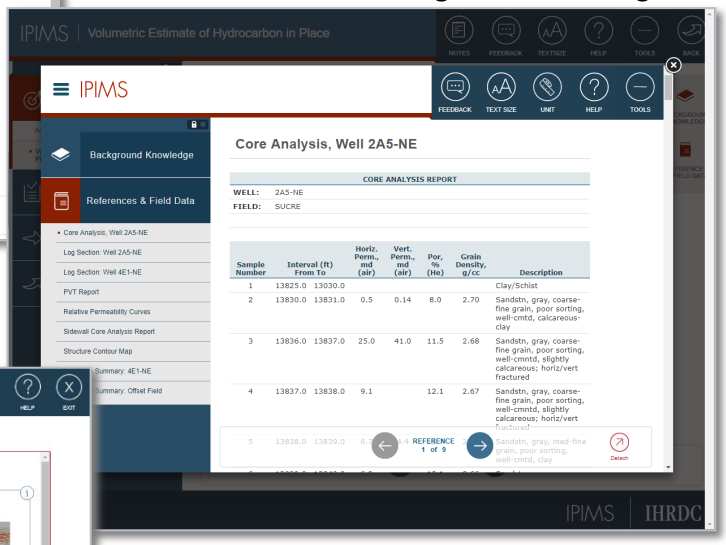
Action Learning

The Action Learning interface is very similar to Background Learning. The overall structure, content and "learn by doing" aspects of Action Learning remain the same, and the ease of use and intuitiveness of the new interface makes it engaging and easy to use.

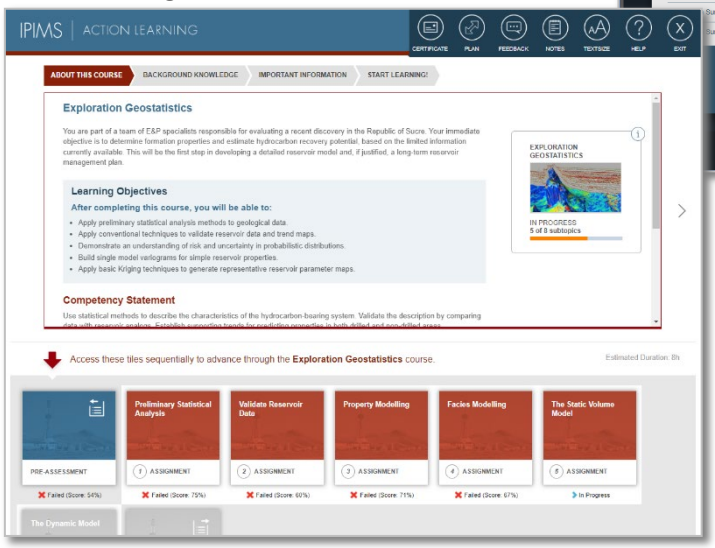
Assessment Engine



View of References and Background Knowledge



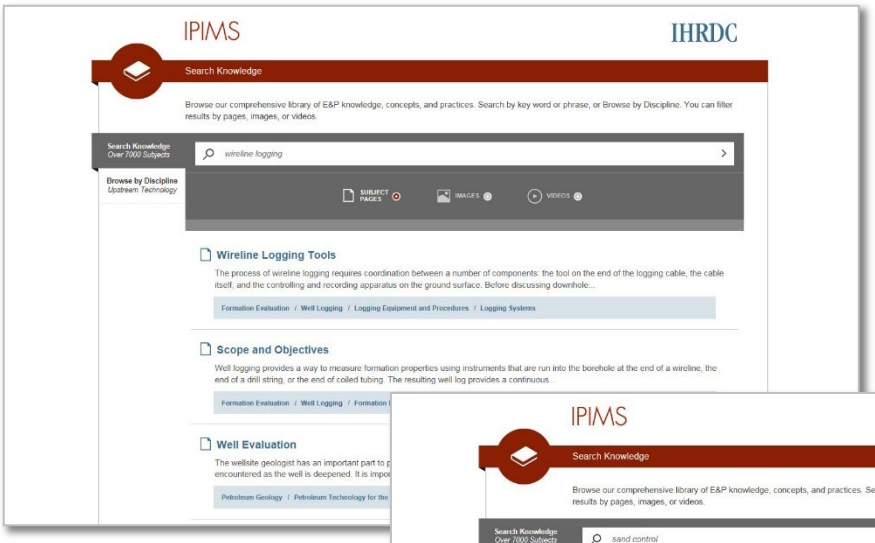
Module Progress View



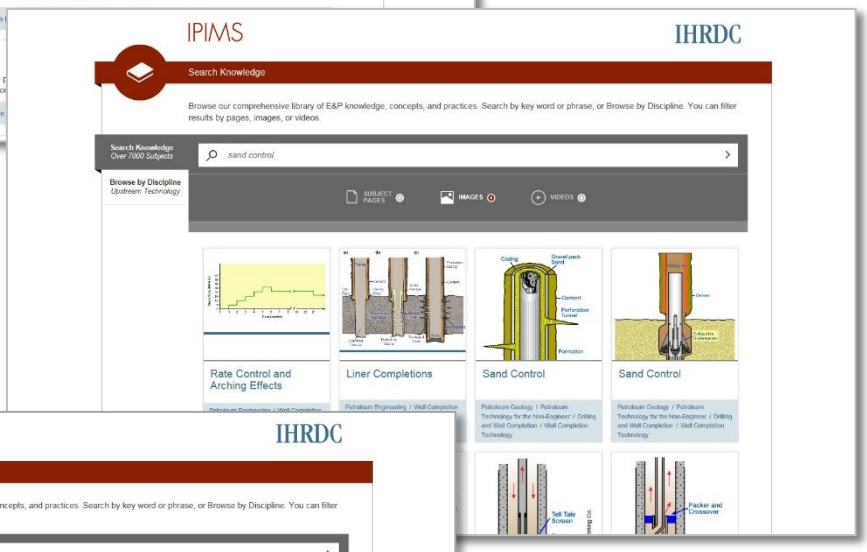
IPIMS Search Functionality

IPIMS includes a Search Engine and Background Knowledge ‘Browse by Discipline’ functionality.

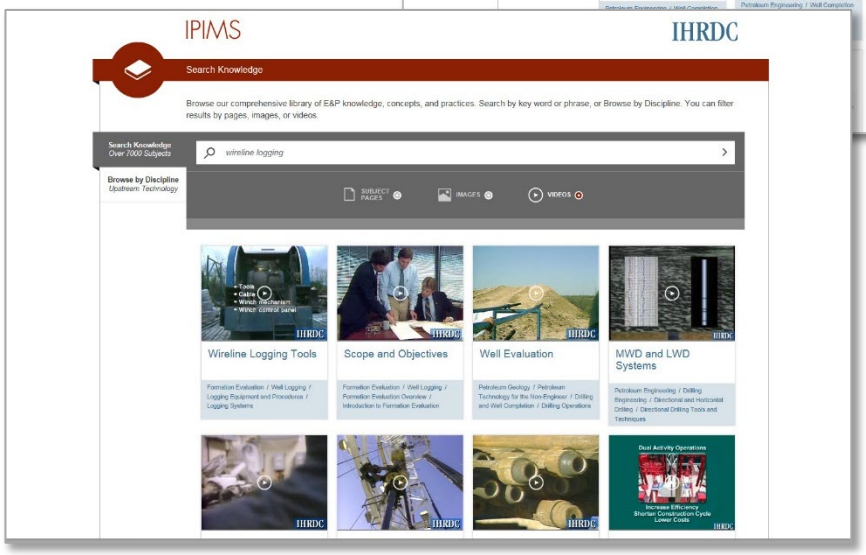
Search Subject Pages



Search Images

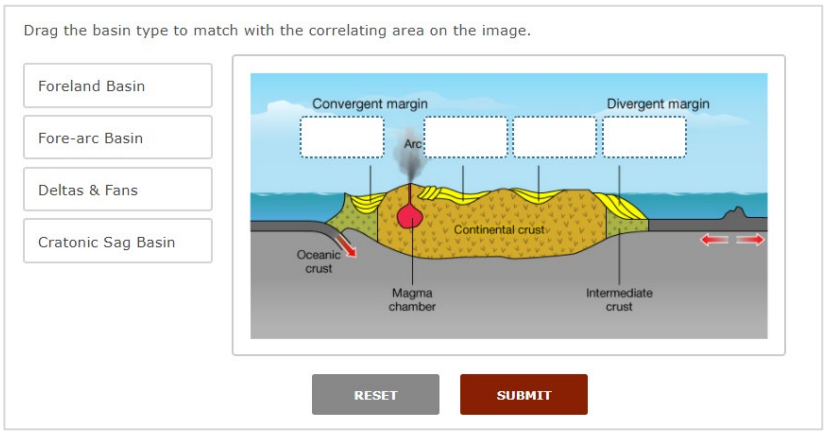


Search Videos



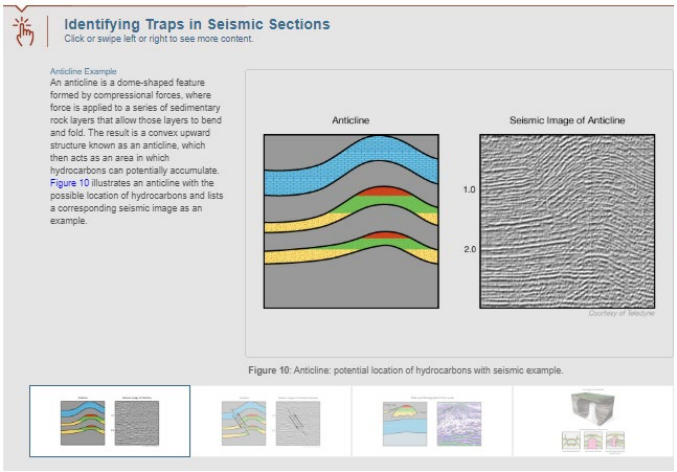
Instructional Integrity and Design

As important as thorough content updating is, so is sound instructional design and quality technical writing. Our in-house instructional design team works with our SMEs and discipline managers to organize and present complex technical content in an understandable and engaging manner.



Every section of each course provides **knowledge checks** to check and reinforce learning. Learners get immediate constructive feedback. Question formats vary from multiple choice to drag & drop to image hotspot identification.

Content is presented in a number of **interactive formats** such as a before and after "slider" tool, which is especially effective in seismic studies. Another interactive format is a media panel with which multiple images can be compared by scrolling left and right.



In each course, the learner is also presented with real-world **assignments** such as a problem to solve with given data or a short discussion about a particular concept within the course.

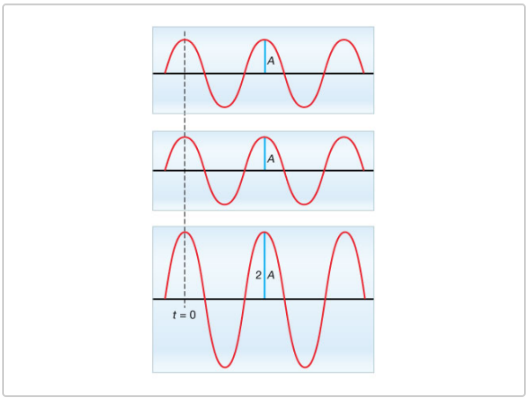
What casing pressure at the point of injection is needed to open a gas lift valve with the following specifications, where the tubing pressure at the point of injection (P_{prod}) is 420 psi?

- Valve outside diameter = 1.5 inches
- Effective bellows area A_b = 0.77 inches
- Port size = $\frac{5}{16}$ inch
- Effective port area (A_p, including lapped seat) = 0.08 inch
- Bellows pressure (P_d, corrected to valve depth) = 580 psi
- $(P_{inj})_{open} = \frac{P_d - P_{prod} \cdot R}{1 - R}$, where $R = \frac{A_p}{A_b}$

Solution click to display solution

Assessment

5 In the image below, the top and middle waveforms have the same frequency and amplitude, but are in different phases. What is the amplitude of the bottom waveform if the phase of the top and middle waveforms are 360°?



A. Half
B. Indeterminate
C. Double
D. Linear

Assessments ensure that the learning objectives are met. Like knowledge checks, assessment questions are presented in a wide range of engaging formats. Assessment questions are randomly generated from a larger pool of questions, so that on retaking the assessment, the learner sees a different set of questions for the subject matter.

IHRDC's 2025 e-Learning Client List

Integrated Oil Company

- Assala Energy
- BP plc
- Cosmo Energy Holdings Co., Ltd.
- ExxonMobil
- Kuwait Energy Basra Limited
- OMV Aktiengesellschaft
- Seplat Energy Plc

National Oil Company

- Abu Dhabi National Oil Company (ADNOC)
- CNOOC Uganda Limited
- Ghana National Petroleum Corporation (GNPC)
- JOGMEC
- JSIL (NOC Libya)
- ONGC
- PTTEP
- QatarEnergy (QP)
- SOCAR
- Sonangol

Upstream

- Aradel Holdings Plc
- CAGL Global Company
- CEPSA E&P
- Chevron SASBU (Angola)
- First Exploration & Petroleum Dev. Company Ltd
- Holmes Western Oil Corporation
- Indian Oil Corporation
- Mari Energies
- NCOC (North Caspian Operating Company)
- Oando PLC
- OGDCL Pakistan
- Pakistan Petroleum Limited (PPL)
- Petralon Energy
- PNOC Exploration Corporation
- PPJO
- Prime International Oil & Gas Company
- Rumaila Operating Organization (ROO)
- Trans-Anatolian Natural Gas Pipeline Project
- Tullow Oil plc
- United Energy Pakistan

Midstream

- ANOH Gas Processing Company
- Axxela
- EACOP
- P66 (formerly DCP Midstream)

Downstream

- Angola LNG
- Chevron Richmond Refinery
- CHS McPherson Refinery
- Hindustan Petroleum Corporation Ltd.

Service Company

- Alvarez & Marsal Business Consulting
- Ascending APE
- Baker Hughes
- Beyond Energy
- LANXESS Canada Co./Cie
- Oildata Wireline Services Limited
- Petroleum Geo-Services
- SLB
- Yokogawa Electric Corporation

Government

- Alaska Dept of Natural Resources, Oil & Gas Div
- ANPG
- Louisiana Dept of Energy & Natural Resources

Professional Association

- Society of Petroleum Engineers (SPE)

Academic

- Jeonbuk National University
- King Fahd University of Petroleum and Minerals
- StreamPro Limited

Other

- Brunei Methanol Company Sendirian Berhad
- ClimaStor

IHRDC e-Learning Solutions Product Series

Oil & Gas Business

The Petroleum Online series covers the entire oil and gas value chain and provides a comprehensive overview of the oil and gas industry. It is ideal for those who seek a solid foundation in oil and gas industry business fundamentals.

Upstream Technology

IPIMS is designed for technical staff working in the Exploration and Production (E&P) sector, and these courses enhance their knowledge of the best practices and theories in the industry. It provides two levels of instruction and covers geology, geophysics, petroleum engineering, drilling, formation evaluation, reservoir engineering, and production.

Operations & Maintenance

These courses provide the tools and knowledge that operators and maintenance technicians need to run plants safely and effectively. The courses can be organized in a competency-based approach to ensure workers perform their jobs properly. They cover relevant theories, plant processes, equipment, maintenance, and operations.

Business Essentials

The MBA-level e-Learning courses in key business management areas explore finance, communications, human resource management, project management, marketing, innovation, risk management, and sustainable management. They are developed in partnership with a leading Boston-based business school and ideal for meeting the needs of oil and gas industry professionals.

Clean Energy & Sustainability

Accelerate your career with our Clean Energy & Sustainability e-Learning, your trusted resource for professional training in the global energy transition. Our leading industry experts continuously develop online courses to equip energy professionals with the knowledge and practical skills to thrive in a low-carbon future.