GEOENERGY ACADEMY

UPSTREAM OIL & GAS | TRAINING CATALOGUE | 2026

154 Courses | 5 Specializations | 3 Proficiency Levels

GeoEnergy®

2026 Edition

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GeoEnergy Academy

Built for Energy Industry. Designed for Real-World impact.

In an industry where the difference between good and exceptional performance often comes down to the people interpreting data, operating assets, and making critical decisions, capability is a strategic advantage.

GeoEnergy Academy transforms this belief into an industry-focused learning system built around the realities of upstream oil & gas and the broader energy sector.

By combining deep technical expertise, practical industry experience, and competency-based learning, we develop capabilities that translate knowledge into performance and measurable business value.

Our programs connect technical excellence, professional development, and emerging industry topics with real-world application—equipping professionals and organizations to perform today and prepare for the future of energy.

At a Glance

15+
Years
of learning and capability development in the energy sector

300K+
Training Hours
delivered across 60+ topic

450+
Cumulative Years
of instructor knowledge and applied experience

154
Professional Training Courses,
spanning geoscience, engineering, digital transformation, leadership & management, and HSE

3
Pillars
One Capability System

GeoEnergy Academy is structured around three integrated pillars, each addressing a distinct dimension of organizational capability:

Capability Building (CB)

Enhancing organizational expertise & talent

- Competency Framework (Assessment/ Development)
- Capability Assessment & Skills Gap Mapping
- Onboarding Programs & OJT Roadmaps
- Technical & Leadership Excellence Programs
- Mentorship, Coaching & Knowledge Transfer
- Custom E-Learning Content & LMS Hosting

Professional Training Programs (PTP)

Upstream science & industry practices

- Geoscience (Geology, Geophysics, petrophysics, Geomechanics)
- Reservoir, Production & Drilling Engineering
- E&P Data Management & Digital Transformation
- Health, Safety & Environmental (HSE) Practices

Organizational Development (OD)

Organizational restructuring & management consultation

- Organizational Optimization (Assessment & Architecture)
- Governance Frameworks & Institutional Strengthening
- Policies, Procedures & Operational Frameworks
- Workforce Strategy, Job Architecture & Role Definition
- Organizational Transformation Journey

How to Use This Catalogue

GeoEnergy Academy's Professional Training Programs are designed to offer flexible learning solutions that can be followed as a structured development pathway, delivered as stand-alone programs, or tailored into customized learning solutions based on your team's specific needs and objectives.

01

Choose a Discipline

Courses are grouped into 5 core disciplines: Geoscience, Engineering, Digital Transformation, Leadership & Management, and HSE. Each discipline maps to a specific technical or organizational capability your teams need to build.

02

Match the Proficiency Level

Every course is tagged with a proficiency level, so participants and their managers can select training that matches current competency and career stage:

Level	Foundational	Intermediate	Advanced
Best For	New hires and cross-functional staff building core technical literacy	Practitioners with field or desk experience deepening technical mastery	Senior specialists and technical leads tackling complex, high-stakes problem-solving

03

Build a Learning Pathway

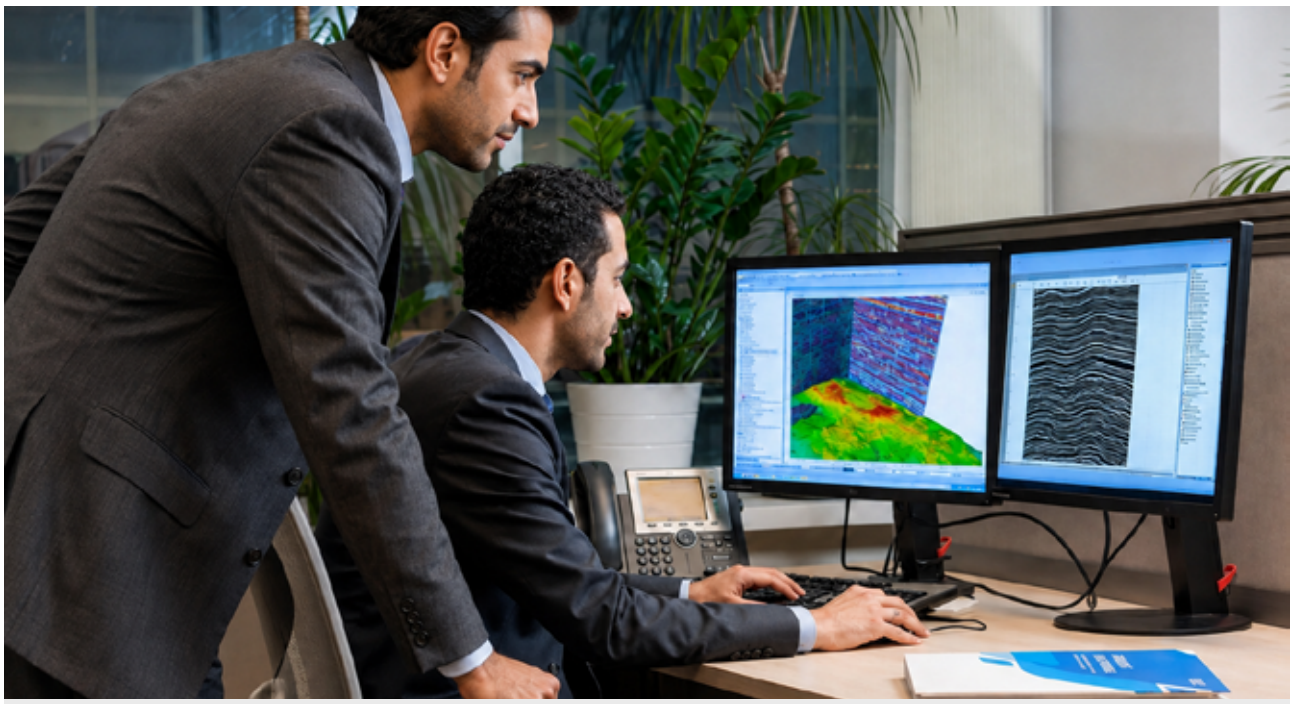
Courses within each discipline are sequenced to build on one another from foundational principles to advanced, integrated application. Organizations can select individual courses for targeted skill gaps, or adopt full pathways to develop a competency pipeline across a team or department.

04

Customize for Your Organization

Every course can be delivered as-is, tailored to your operating context, or bundled into a bespoke development program aligned to your organization's competency framework — supported directly by our Capability Building (CB) pillar.

This catalogue focuses on our **Professional Training Programs (PTP)**—the technical backbone of GeoEnergy Academy—structured across five disciplines and three proficiency levels to provide a clear, progressive capability-development pathway rather than a collection of standalone courses.



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Leadership & Management

Self-Mastery
Leading Teams
Leading Business

Level Color Guide

Foundational | Intermediate | Advanced

Geoscience 01

Geology

Code	Course Title & Overview	Level	Duration
G01	**Petroleum Geology & Petroleum Systems Foundations** Build a solid understanding of the petroleum system framework, covering source, reservoir, seal, trap, and timing. Equips participants with fundamental concepts to evaluate hydrocarbon systems and support exploration decision-making.	Foundational	5 Days
G02	**Applied Petroleum Systems Analysis for Exploration** Learn to evaluate and integrate petroleum system elements to reduce exploration uncertainty, focusing on practical workflows for assessing charge, migration, and retention risks using real-world datasets.	Intermediate	5 Days
G03	**Prospect & Play Risking and Resource Evaluation** Develop the ability to assess geological risk and estimate resources at play and prospect levels using industry-standard risking methodologies to support investment decisions and portfolio ranking.	Advanced	5 Days
G04	**Seismic Exploration: From Data to Geological Insight** Transform seismic data into meaningful geological interpretation, bridging geophysics and geology to extract structural and stratigraphic insights that directly impact exploration outcomes.	Foundational	5 Days
G05	**Applied Sedimentology & Sequence Stratigraphy for Reservoir Prediction** Understand depositional environments and stratigraphic frameworks to predict reservoir distribution and quality, linking sedimentology to subsurface interpretation and exploration success.	Intermediate	5 Days
G06	**Basin Analysis & Tectono-Stratigraphic Evolution for Exploration** Develop regional-scale understanding of sedimentary basins and their evolution, integrating tectonics, stratigraphy, and depositional systems to reconstruct basin development and identify hydrocarbon prospectivity.	Intermediate	5 Days

Code	Course Title & Overview	Level	Duration
G07	**Clastic Reservoir Characterization & Quality Prediction** Gain practical skills in evaluating clastic reservoirs, including facies analysis, heterogeneity, and reservoir quality prediction through integrated geological and petrophysical data.	Intermediate	5 Days
G08	**Fractured Reservoir Characterization & Modeling** Understand and predict naturally fractured reservoir behavior to improve field performance and recovery across carbonate and clastic settings.	Advanced	5 Days
G09	**Carbonate Petrography & Reservoir Quality Analysis** Explore carbonate systems through petrographic analysis and diagenetic processes to assess reservoir quality and variability in carbonate environments.	Advanced	5 Days
G10	**Carbonate vs Clastic Reservoir Systems: Performance & Development** Compare carbonate and clastic reservoirs in terms of behavior, heterogeneity, and development challenges, and how geological differences impact field performance.	Intermediate	5 Days
G11	**Structural Geology for Subsurface Interpretation & Trap Analysis** Apply structural geology concepts to identify traps, faults, and deformation styles, understanding how structural interpretation influences prospect definition and risk assessment.	Intermediate	5 Days
G12	**Fault Seal Analysis for Trap Integrity & Risk Reduction** Understand fault behavior and sealing mechanisms to evaluate trap integrity, focusing on reducing exploration and development risks through fault seal assessment.	Advanced	5 Days
G13	**Subsurface Mapping & Geological Interpretation Workflows** Develop robust subsurface maps and interpretation workflows, integrating seismic and well data to build consistent geological models.	Intermediate	5 Days
G14	**Integrated Well Data Analysis: Core, Logs & Well Testing** Learn to integrate core data, well logs, and well test results to improve reservoir understanding and derive accurate reservoir properties and performance indicators.	Intermediate	5 Days
G15	**Static Reservoir Characterization & 3D Geological Modeling** Build detailed static models representing reservoir geometry and properties by integrating multi-disciplinary data into reliable 3D geological models.	Intermediate	5 Days
G16	**Dynamic Reservoir Modeling for Geologists: From Static to Simulation** Bridge the gap between geology and reservoir simulation, enabling geologists to understand dynamic behavior and contribute to field development planning.	Advanced	5 Days
G17	**Operations Geology & Real-Time Decision Support** Support drilling and field operations through real-time geological interpretation, focusing on decision-making under uncertainty and optimizing well placement.	Intermediate	5 Days

Code	Course Title & Overview	Level	Duration
G18	**Brownfield Reservoir Evaluation & Production Optimization** Unlock additional value from mature fields by identifying bypassed hydrocarbons and optimization opportunities through integrated workflows.	**Advanced**	5 Days
G19	**CO2 Storage & CCS: Geological Screening, Risk & Capacity Assessment** Understand geological principles behind CO2 storage and carbon capture projects, covering site screening, capacity estimation, and risk assessment for CCS implementation.	**Advanced**	5 Days

Geophysics

Code	Course Title & Overview	Level	Duration
G20	**Applied Geophysics for E&P: Foundations & Key Principles** Build a solid foundation in applied geophysics covering seismic methods, data acquisition, processing, and interpretation fundamentals within the E&P context.	**Foundational**	5 Days
G21	**Integrated Seismic Interpretation for Appraisal & Development** Develop the ability to integrate seismic data with geological and well information to support field appraisal and development planning.	**Advanced**	5 Days
G22	**Seismic Stratigraphy & Sequence Interpretation for Reservoir Prediction** Understand how seismic data reveals stratigraphic architecture and depositional systems to predict reservoir distribution and identify stratigraphic traps.	**Intermediate**	5 Days
G23	**Borehole Seismic (VSP & DAS/Fiber): Acquisition & QC Workflows** Learn to design, acquire, and quality-control borehole seismic data including VSP and fiber-optic (DAS) technologies for improved depth calibration and imaging.	**Advanced**	5 Days
G24	**Seismic Data Processing: From Field Data to Reliable Subsurface Imaging** Gain insight into the full seismic processing workflow, from raw field data to final seismic volumes, and how processing decisions impact interpretation reliability.	**Intermediate**	5 Days
G25	**Seismic Imaging for Subsurface Characterization & Geological Insight** Explore advanced imaging techniques that enhance subsurface clarity and structural definition, and how imaging impacts reservoir characterization and uncertainty reduction.	**Advanced**	5 Days
G26	**Seismic Attributes & Reservoir Characterization** Master the extraction, analysis, and application of seismic attributes including geometric, amplitude, and frequency attributes to guide drilling and reservoir decisions.	**Advanced**	5 Days

Code	Course Title & Overview	Level	Duration
G27	**AVO Analysis & Rock Physics for Fluid and Lithology Discrimination** Apply Amplitude Versus Offset (AVO) analysis to discriminate fluid and lithology effects in seismic data using integrated rock physics principles.	**Advanced**	5 Days
G28	**Seismic Inversion for Reservoir Property Prediction** Convert seismic data into quantitative reservoir properties using model-based and geostatistical inversion workflows for improved reservoir prediction.	**Advanced**	5 Days
G29	**Quantitative Interpretation (QI) for Exploration & Reservoir Assessment** Integrate rock physics, AVO, and seismic inversion within a QI workflow to improve exploration and reservoir assessment decisions.	**Advanced**	5 Days
G30	**4D Seismic Reservoir Monitoring & Production Support** Apply time-lapse (4D) seismic methods to monitor reservoir changes and support production decisions through dynamic reservoir response interpretation.	**Advanced**	5 Days
G31	**Structural & Fault Interpretation for Trap Definition & Risk Assessment** Develop skills in identifying, mapping, and interpreting structural features and fault systems in seismic data to support play and prospect evaluation.	**Intermediate**	5 Days
G32	**Velocity Analysis & Depth Conversion for Structural Accuracy** Understand how velocity models are built and used for accurate depth conversion of seismic data to reduce structural uncertainty in exploration.	**Intermediate**	5 Days
G33	**Broadband Seismic Acquisition & Processing for Resolution Enhancement** Explore broadband seismic technology to improve imaging resolution, covering acquisition design, deghosting, and processing workflows.	**Advanced**	5 Days
G34	**Microseismic Monitoring for Reservoir Surveillance & Fracture Mapping** Learn how microseismic data monitors hydraulic fracturing and natural fracture networks for reservoir surveillance and stimulation optimization.	**Advanced**	5 Days
G35	**EM & Gravity Methods in Exploration: Principles & Integration** Understand how electromagnetic and gravity methods complement seismic data in exploration workflows through acquisition, interpretation, and integration.	**Intermediate**	5 Days
G36	**Seismic Data QC & Acquisition Design for Optimal Imaging** Learn to design seismic surveys for optimal subsurface imaging, ensuring data quality through QC workflows linking acquisition to final image quality.	**Intermediate**	5 Days
G37	**AI & Machine Learning Applications in Seismic Interpretation** Explore AI and machine learning transforming seismic interpretation with automated fault detection, facies classification, and attribute analysis.	**Advanced**	5 Days

Petrophysics

Code	Course Title & Overview	Level	Duration
G38	**Petrophysics & Formation Evaluation: Foundations & Key Principles** Build a solid foundation in petrophysics covering rock and fluid properties, well logging fundamentals, and basic interpretation techniques for reservoir quality evaluation.	Foundational	5 Days
G39	**Well Log Interpretation: Principles, Methods & Reservoir Applications** Develop practical skills in interpreting well logs to derive porosity, saturation, and lithology using standard interpretation workflows.	Foundational	5 Days
G40	**Core Analysis & Rock Typing for Reservoir Characterization** Understand how core data defines reservoir properties and classifies rock types through routine and special core analysis integrated into characterization workflows.	Intermediate	5 Days
G41	**Carbonate Petrophysics & Formation Evaluation** Explore complexities of carbonate reservoirs including heterogeneity, diagenesis, and pore systems through specialized evaluation and quality prediction techniques.	Intermediate	5 Days
G42	**Petrophysics of Complex & Unconventional Reservoirs** Address challenges of evaluating tight, fractured, and unconventional reservoirs by adapting petrophysical techniques to complex systems.	Intermediate	5 Days
G43	**Capillary Pressure & Saturation Modeling for Reservoir Evaluation** Learn how capillary pressure data models fluid distribution and saturation behavior in reservoirs through laboratory measurements and reservoir model integration.	Intermediate	5 Days
G44	**Integrated Petrophysics for Reservoir Characterization & Modeling** Develop an integrated approach combining logs, core data, and measurements to build consistent reservoir property models for static and dynamic workflows.	Intermediate	5 Days
G45	**Advanced Well Log Interpretation & Formation Evaluation** Enhance interpretation skills through advanced techniques including multi-mineral analysis and complex lithology evaluation in challenging reservoir conditions.	Advanced	5 Days
G46	**NMR Petrophysics for Reservoir Characterization & Fluid Typing** Understand principles and applications of NMR logging in evaluating porosity, permeability, and fluid types to enhance reservoir characterization.	Advanced	5 Days
G47	**Pore Pressure Prediction & Seal Capacity Analysis** Learn to estimate pore pressure and evaluate seal integrity using petrophysical and geological data to reduce drilling risks and improve trap assessment.	Advanced	5 Days
G48	**Production Logging & Dynamic Reservoir Evaluation** Analyze production logging data to understand fluid flow, well performance, and reservoir behavior for dynamic evaluation and production optimization.	Advanced	5 Days

Code	Course Title & Overview	Level	Duration
G49	**Petrophysical Uncertainty Analysis & Reservoir Optimization** Develop the ability to quantify and manage uncertainty in petrophysical interpretations to support better development and optimization decisions.	**Advanced**	5 Days
G50	**Rock Physics for Seismic-Petrophysics Integration** Bridge the gap between seismic data and reservoir properties through rock physics, linking elastic properties to lithology, porosity, and fluid content.	**Advanced**	5 Days
G51	**Special Core Analysis (SCAL) & Advanced Rock Properties** Gain deeper understanding of advanced rock properties through SCAL techniques including relative permeability, capillary pressure, and wettability.	**Advanced**	5 Days
G52	**Formation Testing & Pressure Transient Analysis for Reservoir Evaluation** Understand how formation testing and pressure data provide insights into reservoir connectivity, fluid distribution, and dynamic behavior using MDT/RFT tools.	**Advanced**	5 Days
G53	**Digital Petrophysics & AI Applications in Formation Evaluation** Explore AI transforming petrophysical workflows through automated log interpretation, core image analysis, permeability prediction, and data-driven modeling.	**Advanced**	5 Days

Geomechanics

Code	Course Title & Overview	Level	Duration
G54	**Fundamentals of Geomechanics for Upstream Applications** Build foundational knowledge in geomechanics covering stress regimes, rock mechanical properties, and their influence on drilling and production operations.	**Foundational**	5 Days
G55	**Rock Mechanics & Stress Regimes in Sedimentary Basins** Understand rock mechanical properties and tectonic stress regimes, covering in-situ stress measurement, rock strength, and implications for wellbore stability.	**Intermediate**	5 Days
G56	**Pore Pressure Prediction & Fracture Gradient Analysis** Develop expertise in predicting pore pressure profiles and fracture gradients for safe drilling operations through data integration and geomechanical modeling.	**Intermediate**	5 Days
G57	**Wellbore Stability Analysis & Drilling Risk Mitigation** Learn to assess wellbore stability and identify drilling risks through mechanical earth modeling, stability analysis, and drilling parameter optimization.	**Intermediate**	5 Days

Code	Course Title & Overview	Level	Duration
G58	**Geomechanics Inputs for Well Planning & Casing Design** Understand how geomechanical data informs well planning and casing design by integrating stress data, pore pressure, and rock strength into well programs.	Intermediate	5 Days
G59	**Hydraulic Fracturing Fundamentals & Geomechanical Controls** Explore geomechanical principles governing hydraulic fracture initiation, propagation, and containment for stimulation planning and risk assessment.	Intermediate	5 Days
G60	**Geomechanics for Appraisal & Early Development Planning** Apply geomechanical insights to field appraisal and early development decisions through mechanical earth model construction and uncertainty assessment.	Advanced	5 Days
G61	**Geomechanics Uncertainty & Sensitivity Analysis** Develop skills in quantifying and managing uncertainty in geomechanical models through sensitivity analysis and probabilistic methods for drilling and development.	Advanced	5 Days

02 Engineering

Reservoir Engineering

Code	Course Title & Overview	Level	Duration
RE01	**Fundamentals of Reservoir Engineering** Establishes a rigorous foundation in reservoir engineering principles covering quantitative evaluation of hydrocarbon accumulations, recovery mechanisms, production behaviour, and forecasting methodologies.	Foundational	5 Days
RE02	**Integrated Reservoir Characterisation & Geo-Engineering Modelling** Delivers a multidisciplinary workflow for characterising reservoir heterogeneity and translating subsurface uncertainty into structured static and dynamic models.	Advanced	5 Days
RE03	**Enhanced Oil Recovery (EOR)** Provides structured understanding of chemical, miscible, thermal, and hybrid EOR processes linking theoretical recovery mechanisms with field-scale implementation strategies.	Advanced	5 Days

Code	Course Title & Overview	Level	Duration
RE04	**Well Test Design and Analysis** Comprehensive applied understanding of well test design and interpretation covering pressure transient analysis, diagnostic plotting, and type curve matching techniques.	**Advanced**	5 Days
RE05	**Reserves Estimation** Comprehensive framework for petroleum resource definition and categorisation per SPE-PRMS combining deterministic and probabilistic methods with Monte Carlo simulation.	**Intermediate**	5 Days
RE06	**Unconventional Reservoirs** Structured framework for assessing tight formations, heavy oil, and extra-heavy oil resources, integrating geological screening, petrophysical evaluation, and stimulation design.	**Intermediate**	5 Days
RE07	**Reservoir Simulation & Forecasting** In-depth understanding of reservoir simulation principles integrating static-to-dynamic model transition, history matching strategies, and performance forecasting methodologies.	**Advanced**	5 Days
RE08	**Routine and Special Core Analysis** Comprehensive framework for RCA and SCAL within reservoir engineering workflows, examining laboratory methodologies for measuring rock and fluid properties.	**Advanced**	5 Days
RE09	**Horizontal and Multilateral Wells: Analysis & Design** Integrated framework for analysis and design of horizontal, multilateral, and intelligent well systems covering productivity prediction, completion design, and economic evaluation.	**Advanced**	5 Days
RE10	**Basic Waterflooding** Practical end-to-end foundation for designing, executing, and optimizing waterflooding projects covering displacement fundamentals, sweep efficiency, and pattern selection.	**Intermediate**	5 Days
RE11	**Oil and Gas Reserves Evaluation** Rigorous framework for evaluation, classification, and reporting of oil and gas reserves per internationally recognized standards, integrating technical methods with governance requirements.	**Advanced**	5 Days
RE12	**PVT Properties of Reservoir Fluids** Practical understanding of reservoir fluid behavior covering PVT properties derivation, quality control, EOS modeling, and application in reservoir engineering decision-making.	**Advanced**	5 Days
RE13	**Cased Hole Drill Stem Testing** Practical framework for planning, executing, and interpreting cased-hole DST to evaluate reservoir deliverability, productivity potential, and near-wellbore conditions.	**Intermediate**	5 Days
RE14	**Water Flooding Field Applications & Monitoring Performance** Focuses on field-scale execution, surveillance, and optimization of waterflooding projects including performance evaluation, injection-rate estimation, and optimization strategies.	**Advanced**	5 Days

Code	Course Title & Overview	Level	Duration
RE15	**Advanced PVT and EOS Fluid Characterisation** Comprehensive advanced study of PVT and EOS fluid characterisation covering EOR processes, complex fluid system behaviour, and the full workflow from sampling through EOS model development.	**Advanced**	5 Days
RE16	**Naturally Fractured Reservoir Modelling** Addresses key concepts and challenges in modelling and simulating naturally fractured reservoirs, providing practical guidelines for meaningful reservoir simulation models.	**Advanced**	5 Days
RE17	**CCUS for Reservoir Engineers** **Covers reservoir engineering skills required for safe and effective** CO_2 storage in subsurface geologic formations, focusing on depleted fields and deep saline aquifers.	**Intermediate**	5 Days
RE18	**Wireline Formation Tester** Covers formation tester and sampling tools for exploration, appraisal, and reservoir development projects with practical exercises for maximizing quality data acquisition.	**Intermediate**	5 Days
RE19	**Petroleum Geostatistics** Covers geostatistics principles including variogram analysis, spatial interpolation, and uncertainty quantification for mapping reservoir properties and optimizing resource estimation.	**Intermediate**	5 Days
RE20	**Reservoir Engineering for Non-Reservoir Engineers** Practical and focused approach to reservoir engineering for non-engineers covering hydrocarbon behavior within reservoirs and methods available for resource recovery.	**Foundational**	5 Days

Drilling Engineering

Code	Course Title & Overview	Level	Duration
D01	**Basic Drilling Technology** Thorough overview of drilling equipment, technology, and practices covering well planning, wellbore pressure dynamics, well control, downhole equipment, and cementing operations.	**Foundational**	5 Days
D02	**Advanced Casing Design** Covers all aspects of oilfield tubular design including structural mechanics, material aspects, connection selection, performance properties, load cases, and buckling.	**Advanced**	5 Days
D03	**Casing and Cementing** Covers recent trends in casing and cementing, building a solid foundation in designing, planning, and conducting successful casing and cement jobs through remedial cementing operations.	**Intermediate**	5 Days

Code	Course Title & Overview	Level	Duration
D04	**Drilling Fluids, Mud Technology and Hydraulics** Extends knowledge to drilling hydraulics and mud technology, providing understanding of hydraulics, pressure drop estimation, drilling fluid rheology, and its effects.	Intermediate	5 Days
D05	**Drilling Optimization and Well Planning** Covers drilling optimization and well planning with an integrated systems view of well construction, reviewing design steps for casing, drilling fluid, hydraulics, and cementing programs.	Advanced	5 Days
D06	**Geomechanics and Rock Mechanics for Drilling Optimization** Complete understanding of formation stresses, rock behavior, and mechanical interactions governing wellbore stability, with guidance on integrating data into geomechanical models.	Advanced	5 Days
D07	**Advanced HPHT Drilling Operations** In-depth information on drilling under extremely hostile conditions including special drilling fluids, BHAs, and casing strings designed for HPHT wells.	Intermediate	5 Days
D08	**Drilling Rig Inspection** Focuses on inspection and maintenance procedures to ensure equipment integrity, implementing standards to verify rig equipment condition, improve safety, and reduce accidents.	Foundational	5 Days
D09	**Extended Reach Drilling (ERD)** Improves understanding of design and operational aspects of high angle drilling, covering planning and evaluating highly deviated wells and ERD well planning best practices.	Intermediate	5 Days
D10	**Wireline and Logging-while-Drilling (LWD)** Covers quality indicators for wireline and LWD logging certification, tools response from physical principles, and basic petrophysical interpretation for proper log QA/QC analysis.	Foundational	5 Days
D11	**Directional, Horizontal and Sidetrack Drilling** Increases understanding of directional drilling operations, covering multilateral well applications, predicting wellbore path, and requirements to hit drilling targets.	Intermediate	5 Days
D12	**Proactive Stuck Pipe Avoidance (PSPA)** Designed to prevent and mitigate stuck pipe problems through industry best practices, covering causes and methods to reduce stuck pipe events in drilling and workover programs.	Intermediate	5 Days
D13	**Well Drilling & Completion** Strategic and comprehensive approach to modern drilling operations covering well planning, fluid management, advanced well control, and BHA design with practical case studies.	Advanced	5 Days
D14	**Managed Pressure Drilling Well Design and Application** Covers MPD as technology for drilling through narrow pore-pressure/ fracture-pressure gradient windows, using RCDs for precise control over wellbore fluids.	Intermediate	5 Days

Code	Course Title & Overview	Level	Duration
D15	**Stuck Pipe and Fishing Operation** Practical review of causes of stuck pipe and avoidance techniques, covering fishing tools selection, stuck pipe mechanisms, drilling jar selection, and sidetrack procedures.	Intermediate	5 Days
D16	**Introduction to Completion Design** Covers the essentials of well completion design and operations required for long-term well viability in meeting development objectives across hydrocarbon reservoirs.	Foundational	5 Days

Production Engineering

Code	Course Title & Overview	Level	Duration
P01	**Production Optimization For Mature Fields** Introduction to production optimization from mature fields covering reservoir maturity stages, well system behaviour, NODAL analysis, artificial lift, and production optimization.	Foundational	5 Days
P02	**Artificial Lift Systems** Covers artificial lift methods using pumps and gas, focusing on proper selection, operation, and maintenance of subsurface pumps for best economical life.	Intermediate	5 Days
P03	**Production Subsurface Operations** Technical program providing in-depth knowledge of subsurface production covering geology structure, rock and fluid properties, and well analysis tools.	Foundational	5 Days
P04	**Water Treatment Technology** Covers water treatment plant processes for industrial use, drinking water production, and wastewater management, including plant design, operation, and optimization.	Foundational	5 Days
P05	**Lifting Equipment and Tools** Overview of examination processes for in-service lifting equipment as required by legislation, covering inspection techniques, rejection criteria, and certification.	Advanced	5 Days
P06	**In-Line Inspection for Pipelines** Comprehensive introduction to utility and in-line inspection pigging covering regulatory requirements, geometry pigs, MFL or ultrasonic pigs, and flow assurance pigging.	Foundational	5 Days
P07	**Piping Inspection** Covers pipeline integrity management for aging transmission pipelines, presenting latest inspection, defect-assessment, and maintenance methods including codes and standards.	Intermediate	5 Days
P08	**Well Completions Design & Performance for Production Engineering** Up-to-date overview of well completion and workover operations covering completion design factors, flow capacity, completion configurations, perforating, and well stimulation.	Foundational	5 Days

Code	Course Title & Overview	Level	Duration
P09	**Gas Compression Foundations** Overview of gas compression technologies covering different types of compressors, compression systems, and the use of reciprocating and centrifugal compressors in gas applications.	Foundational	5 Days
P10	**Artificial Lift - ESP & Lift-System Optimization** Covers ESP and sucker rod pump systems through design, optimization, and troubleshooting including equipment use, performance evaluation, and well operations.	Advanced	5 Days
P11	**Oilfield Water Treatment Program** Overview of water-oil treatment systems covering chemistry and treatment of mineral scales, corrosion, bacteria, and oily water, and produced water treatment equipment.	Intermediate	5 Days
P12	**Formation Damage & Stimulation** Covers main aspects of stimulation to repair formation damage, addressing causes during drilling, cementing, perforating, producing, and workover operations.	Intermediate	5 Days
P13	**Sand Management & Control** Covers integrated sand management approaches balancing downhole sand control with managing safe levels of sand production, including surface options and strategy development.	Foundational	5 Days
P14	**Pigging Operations** In-depth course on pipeline pigging processes covering pig types, maintenance strategies, hazard assessment, safety protocols, and emergency procedures.	Intermediate	5 Days

Digital Transformation 03

Code	Course Title & Overview	Level	Duration
DT01	**Introduction & Fundamentals of E&P Data Management** Build a strong foundation in E&P data management covering data types, standards, quality control, data lifecycle management, and digital repositories used across oil and gas.	Foundational	3 Days
DT02	**Applied GIS Techniques to E&P Data Management & Subsurface Interpretation** Learn how GIS can be applied to manage, visualize, and interpret E&P data integrating spatial data with geological and operational information for subsurface analysis.	Intermediate	3 Days

Code	Course Title & Overview	Level	Duration
DT03	**GIS for Data Management Professionals (Advanced Applications)** Advance GIS capabilities through specialized E&P applications covering advanced geospatial workflows, database integration, spatial modeling, and data visualization.	**Advanced**	5 Days
DT04	**Data Analysis & Machine Learning for Geoscientists** Develop practical data analytics and machine learning skills for geoscience applications including data preparation, statistical analysis, and predictive modeling.	**Foundational**	5 Days
DT05	**Data Science and Machine Learning Workshop - Oil & Gas Applications** Explores practical application of data science and machine learning across the oil and gas value chain through analytics workflows, predictive modeling, and automation techniques.	**Advanced**	5 Days
DT06	**Machine Learning for Geoscientists and Python Applications** Learn Python and machine learning techniques for geoscience challenges including data processing, visualization, classification, and predictive analysis using subsurface datasets.	**Intermediate**	5 Days

Leadership & Management 04

Self-Mastery

Code	Course Title & Overview	Level	Duration
SM01	**Leading Self** Develop the foundational self-leadership capabilities required for professionals to effectively manage themselves, enhance personal performance, and contribute proactively within technical and operational environments.	**Foundational**	3 Days
SM02	**Collaborate to Succeed; The Synergy Advantage** Develop the foundational collaboration capabilities required for professionals to work effectively within teams, build positive working relationships, and contribute productively in diverse and cross-functional environments.	**Foundational**	3 Days
SM03	**Self - Others Emotions Navigation** Develop self-awareness and interpersonal effectiveness to help participants build productive workplace relationships, communicate effectively, and navigate workplace challenges professionally. self regulation.	**Foundational**	2 Days

Code	Course Title & Overview	Level	Duration
SM04	**High-Impact Decision-Making & Problem Solving** Develop structured thinking, analytical reasoning, and practical problem-solving skills to enable participants to make sound day-to-day decisions and contribute effectively to operational performance.	Foundational	2 Days
SM05	**The Power of Communication & Influencing** Develop the communication and influencing skills required to build professional relationships, collaborate effectively, and communicate ideas confidently within the workplace.	Foundational	2 Days

Leading Teams

Code	Course Title & Overview	Level	Duration
LT01	**Emotional Intelligence** Equip leaders with emotional intelligence capabilities that enhance leadership effectiveness, strengthen team engagement, improve influence, and foster high-performing workplace cultures.	Intermediate	2 Days
LT02	**Executive Decision-Making Under Uncertainty** Strengthen leaders' ability to make strategic decisions, solve complex business problems, manage uncertainty, and balance operational, financial, and organizational risks.	Intermediate	2 Days
LT03	**Communication & Influencing Skills for Leaders** Equip leaders with advanced communication and influencing capabilities to engage stakeholders, inspire teams, negotiate effectively, and drive organizational outcomes.	Intermediate	2 Days
LT04	**High-Performance Technical Teams Leadership** Equip technical leaders with the capabilities required to build, lead, and sustain high-performing technical teams by enhancing collaboration, engagement, accountability, communication, and performance management within complex operational and project environments.	Intermediate	2 Days
LT05	**Innovation Leadership in the Energy Sector** Enable leaders to foster a culture of innovation, identify emerging opportunities, drive strategic transformation, and lead innovation initiatives that create sustainable value and competitive advantage within the evolving energy sector.	Intermediate	2 Days
LT06	**Smart Operations Leadership (POLCA)** Enable leaders to drive operational excellence by optimizing workflows, improving efficiency, enhancing performance visibility, and fostering a culture of accountability and continuous improvement through the principles of Smart Operations and POLCA.	Intermediate	3 Days

Leading Business

Code	Course Title & Overview	Level	Duration
LB01	**leading business - Business Acumen for Technical Leaders** Developing a successful company is enjoyable but requires a clear strategy and sound decision making. You can succeed with different strategies, as long as operational decisions are consistent with the chosen strategy and are appropriate for the company's target customer group. Employee satisfaction is required to achieve customer satisfaction, which in turn is needed to generate sales and profits. Changing environmental and competitive conditions can have a major impact on a company's operations. Understanding and applying key business concepts and tools (e.g. PESTLE analysis, competitive analysis, product differentiation, vertical integration) can improve performance.	**Advanced**	2 Days
LB02	**Strategic Thinking for Executives in the Energy Sector** Enable executive leaders to define strategic direction, align organizational priorities, drive execution excellence, and ensure sustainable business growth in a rapidly evolving energy sector.	**Advanced**	3 Days
LB03	**Leading Through Change & Transformation in a VUCA World** Equip executive leaders with the strategic mindset, leadership capabilities, and transformation tools required to successfully navigate and lead organizations through uncertainty, volatility, disruption, and large-scale change while sustaining business performance and organizational resilience.	**Advanced**	3 Days

Health, Safety & Environment 05

Code	Course Title & Overview	Level	Duration
H01	**Management of QHSE Activities** Covers management and implementation of integrated QHSE systems, including structure, governance, risk management integration, and performance monitoring and improvement.	**Advanced**	5 Days
H02	**Effective Safety Inspection** Covers principles and practices of conducting effective safety inspections including inspection planning, hazard identification, and evaluation of compliance with safety standards.	**Intermediate**	2 Days
H03	**Safe Use & Handling of Hazardous Materials** Provides understanding of safe handling, storage, and control of hazardous materials covering hazard classification, exposure risks, control measures, and incident response.	**Intermediate**	2 Days

Code	Course Title & Overview	Level	Duration
H04	**HSE Emergency Preparedness** Covers planning and responding to emergency situations including development of emergency response plans, risk scenarios, and coordination procedures for managing incidents.	Intermediate	2 Days
H05	**Safety Management Systems** Covers structure and implementation of safety management systems including hazard identification, risk assessment, performance monitoring, and continuous improvement frameworks.	Advanced	5 Days
H06	**HSE Policies and Procedures** Covers development, implementation, and management of HSE policies and procedures, translating regulatory and system requirements into practical operational guidelines.	Intermediate	2 Days
H07	**Accident & Incident Investigation - RCA & Corrective Actions** Covers systematic investigation of accidents and incidents to identify root causes, including evidence collection, RCA methodologies, and corrective action development.	Advanced	3 Days
H08	**Hazardous Waste Management & Pollution Training** Covers management of hazardous waste and environmental pollution including identification, handling, storage, and disposal per environmental regulations.	Intermediate	3 Days
H09	**Oil and Gas Operational Safety** Covers safety practices and risk control measures specific to oil and gas operations across upstream, midstream, and downstream activities including process risks.	Intermediate	2 Days
H10	**Oil Spill Control** Covers response and control of oil spill incidents including oil behavior in environments, containment and recovery techniques, response planning, and team coordination.	Intermediate	2 Days
H11	**HSE Auditing and Inspection** Covers principles and practices of HSE auditing and inspection to evaluate compliance, including audit planning, inspection techniques, and actionable improvement recommendations.	Advanced	5 Days
H12	**Risk Management Plans & Register Development** Covers development and implementation of structured risk management plans and risk registers, including risk identification, assessment, prioritization, and mitigation strategies.	Advanced	3 Days
H13	**Risk Analysis & Assessment** Covers advanced risk analysis techniques including LOPA, FTA, and quantitative risk assessment to evaluate risk likelihood and consequences for process safety management.	Advanced	4 Days

Code	Course Title & Overview	Level	Duration
H14	**Crisis Management and Emergency Response** Covers managing high-impact events requiring rapid coordinated response, including crisis identification, escalation, response strategies, and communication during critical situations.	Advanced	3 Days
H15	**Incident Command System** Introduces the ICS structure and application as a standardized approach to managing emergency and incident response, covering roles, communication protocols, and coordination.	Intermediate	2 Days
H16	**Environment Management System** Covers development and implementation of environmental management systems including environmental policy, planning, performance monitoring, and alignment with international standards.	Advanced	5 Days
H17	**HSE Monitoring and Reporting** Covers monitoring HSE performance and producing structured reports, including monitoring program design, performance indicators, data collection, and reporting practices.	Intermediate	2 Days
H18	**HSE Management System** Comprehensive understanding of HSE management systems covering policy development, risk management, performance measurement, auditing, and continuous improvement.	Advanced	5 Days
H19	**Process Hazard Analysis** Covers hazard identification and analysis using structured methodologies including HAZOP, What-If analysis, and other systematic approaches to hazard identification and risk evaluation.	Advanced	5 Days
H20	**Fire Fighting in Oil & Gas** Covers firefighting techniques in oil and gas operations for hydrocarbon fires including jet fires, pool fires, and vapor cloud explosions using fixed and portable systems.	Foundational	2 Days
H21	**Fire Fighting** Introduction to basic firefighting principles covering fire behavior, common hazards, and the use of firefighting equipment in workplace environments	Foundational	2 Days
H22	**Personal Protective Equipment (PPE)** Covers selection, proper use, and management of PPE covering different types, applications across risk scenarios, and integration within hierarchy of controls.	Foundational	1 Days
H23	**Defensive Driving** Develops safe driving behaviors through simulation-based training and VR scenarios covering defensive driving principles, hazard recognition, and decision-making under dynamic conditions.	Foundational	2 Days

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