Training - Financial Management in the Energy Business

AGFE-EN-P | Face-to-face only | 3 days

The energy sector is changing. The energy transition is increasing the pressure on traditional Oil & Gas activities' profitability. Renewable energy value levers are changing rapidly. In this context it is important for managers of these activities to understand the stakes of the firm's financial management and its key tools in order to better contribute to the performance of their organization

Level

Knowledge

Public

Technical, business development executives, economists and young high-potential executives of Oil & Gas and renewable energy companies, as well as public administration decision makers and staff (industry, finance, energy, environment)

Objectives

Attendees will be able to implement the following skills:

- Interpret the main financial indicators of their organization to better contribute to value creation,
- Evaluate the expected profitability of investment projects,
- Understand the criteria for selecting a company's financial structure

Pedagogical & technical resources

- Exercises.
- Case studies: financial analysis of a company, evaluation of an investment project (offshore Wind farm)

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

DEFINITIONS — 0.6 day

Financial management objectives. Key performance indicators in the energy sector.
Understanding financial statements. Fundamental accounting principles. Difference between income statement and cash flow.

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VALUE MANAGEMENT — 1.7 days

Analyzing and managing the financial performance of operations. Energy companies management targets/objectives: "Total Shareholder Return", ROCE, ROE). Cost of capital. Financial analysis ratios. Dashboards. Assessing the profitability of an investment project: discounting methodology and economic indicators (NPV, IRR, Payback time...), sensitivities.

OPTIMIZING THE FINANCIAL STRUCTURE OF THE FIRM — 0.7 day

Choosing the financial structure of the firm. Gearing.
Solvability, borrowing capacity.
Examples of typical energy financing methods: project financing, green bonds.

Sessions

Rueil-Malmaison - From 10/13/2026 to 10/15/2026 **2970 €/HT**

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
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Training - Introduction to petroleum geology: Alès basin fieldtrip

ALES-EN-P

Face-to-face only

4 days

4 days over 5 calendar days

This course allows to acquire a basic knowledge in geology, especially geology applied to petroleum sciences, using field observation and analysis alternating with theoretical knowledge via daily classes

Level

Knowledge

Public

Non-geologists or geologist trainers/juniors who want to acquire basic knowledge in petroleum sciences

Objectives

Attendees will be able to implement the following skills:

- Identify main characteristics of a petroleum system
- Analyze and describe workflow and tools used by geoscientists (geological maps, sections, seismic profiles, logs)

Pedagogical & technical resources

- Daily theoretical courses and field observations
- Description and study of worldwide petroleum systems through field analogues
- Correlation between field observations and geotools (seismic and logs)

Assessment of achievements

Knowledge assessment with multiple choice questions and open explanatory questions

Prerequisites

No pre-requisites are necessary to follow this course

Complementary informations

Subscription fees include accommodation and daily field transportation fees. Participants remain responsible for their own travel to/from fieldtrip location (Gard, France; to be confirmed)

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

BASIN HISTORY — 0.5 day

Sedimentology and stratigraphy concepts.
Structural network – Folds – Faults.
Rock identification.

CARBONIFEROUS COAL SYSTEM AND TRIASSIC UNCONFORMITY — 1 day

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Fluvial deposits.
Sequence stratigraphy – A/S concept.
Continental source rock.
Reservoir analogues.

JURASSIC AND CRETACEOUS CARBONATE PLATFORMS — 1 day

Analogy with carbonate platforms of the Middle East.
Marine source rock.
Porous and fractured reservoirs.
Outcrops and quarries.

PETROLEUM SYSTEM OF THE ALES BASIN — 1 day

Eocene lacustrine source rock.
Hydrocarbon maturation and migration processes.
Reservoir rock – Types of porosity.
Prospect definition – From prospect to reservoir.

CONCLUSION, PERSPECTIVES AND PREDICTIONS — 0.5 day

Miocene deposits.
Onshore/Offshore transition (Gulf of Lion).
Seismic interpretations.
Main tools of the petroleum geoscientist.

Sessions

Alès - From 10/05/2026 to 10/09/2026 — **3800 €/HT**

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Training - Environmental Management

ENVMGT-EN-P | Face-to-face only | 5 days

This course provides a thorough and applied knowledge of best industry standards and practices for appraising environmental matters throughout the life cycle of a field development, to implement the management of impact and risks throughout the life cycle of a project from exploration up to abandonment

Level

Knowledge

Public

Managers, advisors, engineers, and operations staff involved in management of environmental issues all along the lifetime of a field development

Objectives

Attendees will be able to implement the following skills:

- Explain the fundamentals of environmental management in terms of risks and impacts
- Describe techniques, fundamentals and contents of environmental impact assessments
- Identify mitigation measures
- Select key performance indicators, and set up environmental management plans
- Explain the content of an oil spill contingency plan

Pedagogical & technical resources

- Several applications and illustrations
- Several case studies and teamwork sessions

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

FUNDAMENTALS OF ENVIRONMENTAL MANAGEMENT — 0.5 day

Why environmental management is necessary. Concept of sustainability.
Definitions: environmental impact, significance, accidental vs. operational discharges, discharge and pollution.
Legal standards: definition, standard determination. Best available technology. Best environmental practices.

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Environmental Quality Standards (EQS), discharge standards - Regional, international, conventions.
Introduction to social management.

ENVIRONMENTAL, SOCIAL & HEALTH IMPACT ASSESSMENT — 1 day

Risk assessment: concept of hazards, risks, hazard identification and risk assessment process.
Impact assessment throughout the lifecycle of the project.
Aspect and potential impact identification.
Sources of environmental information.
Impacts on atmosphere: air pollution, GHG emissions.
Impacts on aquatic resources: water pollution and water availability.
Impacts on land resources: ground pollution and land use.
Impacts on biodiversity.
Socio-economic and cultural impact.

ENVIRONMENTAL MANAGEMENT PLAN — 0.75 day

Concept and elements.
Control measures to reduce air emissions.
Control measures to reduce water consumption and water pollution.
Control measures to reduce land pollution and use.

MONITORING & REPORTING — 0.5 day

Key performance indicators, Industry performance - Trends.
Environmental monitoring and surveillance.
Green house gases estimation and reporting.

WASTE MANAGEMENT PLAN — 0.5 day

Strategy - Type of waste.
Waste collection.
Transport and storages (primary, final...).
Treatments options (biological, thermal desorption).

MANAGEMENT OF ENVIRONMENTAL EMERGENCIES — 0.75 day

Identification of spill scenarios.
Oil spill contingency planning strategies: onshore and offshore cases.
Typical resources for oil spill contingency plans.

STAKEHOLDERS ENGAGEMENT — 0.25 day

Stakeholders identification.
Engagement and information process.
Stakeholders engagement plan review.

ENVIRONMENTAL MANAGEMENT SYSTEM — 0.5 day

Elements of environmental management systems.
Referentials and certification. ISO 14001.
EMS as part of integrated management systems.
Environmental culture and leadership in the organization.

ENERGY MANAGEMENT — 0.25 day

Introduction to energy sources.
Energy efficiency. Measures for improvement.

Sessions

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Pau - From 11/02/2026 to 11/06/2026 **4360 €/HT**

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Training - Environmental and Social Risk Management

ENVSOC-EN-P | Face-to-face only | 5 days

This course provides a thorough and applied knowledge of best industry standards and practices for appraising environmental and social matters that need to be handled cautiously throughout the life cycle of an upstream project, from design to construction and operation of Oil & Gas processing facilities

Level

Knowledge

Public

Managers, advisors, engineers and operations staff involved in oversight or management of environmental and social issues all along the lifetime of an upstream project

Objectives

Attendees will be able to implement the following skills:

- Understand the global prevailing context for the Oil & Gas industry
- Grasp legal requirements and standards with respect to impact on local environment and populations
- Understand techniques and contents of environmental and social impact assessments
- Identify mitigation measures, perform stakeholders' mapping and build public consultation and disclosure plans
- Select key performance indicators, and set up monitoring with environmental and social management plans

Pedagogical & technical resources

- Several applications and illustrations
- Several case studies and teamwork sessions

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

ENVIRONMENTAL ISSUES RELATED TO E&P ACTIVITIES — 0.25 day

Historical overview of impact awareness, management.
Definitions: environmental impact, significance, accidental vs. operational discharges, discharge and pollution.

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THE STAKES — 0.75 day

Environmental issues: local, regional, global.
Air, water (availability, pollution), biodiversity, wastes.
Kyoto protocol, carbon dioxide accounting, cap and trade, clean development mechanisms.
Toxicity, ecotoxicity.

ENVIRONMENTAL RISK ASSESSMENT (ERA), LEGAL REQUIREMENTS/LEGAL STANDARDS: NATIONAL, REGIONAL, INTERNATIONAL — 0.25 day

Environmental Risk Assessment (ERA).
Legal standards: definition, standard determination, best available technology, best environmental practices.
Environmental Quality Standards (EQS), discharge standards - Regional, international, conventions.

ENVIRONMENTAL IMPACT ASSESSMENT - PROJECTS — 0.5 day

Environmental impact assessment activities throughout the life cycle of a field, tools used for impact prediction.
The EIA process, scoping an EIA, ENVID (Environmental Hazard Identification), environmental management plan. Case study.

ENVIRONMENTAL RISK MANAGEMENT - PRODUCTION ACTIVITIES — 0.5 day

HSE MS - EMS (ISO 14001), continuous improvement processes.
Key environmental procedures: wastes management, chemical management, monitoring.
Oil spill contingency planning.

MONITORING & REPORTING — 0.5 day

Key performance indicators, industry performance - Trends.
Environmental monitoring & surveillance.
Green house gases estimation and reporting.

ENVIRONMENTAL RISK MANAGEMENT - ABANDONMENT — 0.25 day

SOCIAL ISSUES RELATED TO E&P ACTIVITIES: THE RISKS, THE STAKES & THE STRATEGIES — 0.5 day

The risks and the stakes. Some high profile cases (human rights, NGOs activism, etc.).
Documentary viewing and discussion on social risks in E&P activities.
How to change practices and image?

PARTICIPATIVE SOCIAL IMPACT ASSESSMENT AS A RISK MANAGEMENT TOOL — 0.5 day

Participative social impact assessment: definition, business case and standards, process.
Social management plans and monitoring. Focus on special topics: involuntary resettlement, local communities, business in conflict zones.

STAKEHOLDER ENGAGEMENT — 0.5 day

Stakeholder engagement: definition and business case.
Public consultation and disclosure plan (steps and techniques).
Stakeholder mapping.
Stakeholder engagement: misguiding assumptions and key success drivers.

CASE STUDY: SOCIAL SCREENING OF AN OIL & GAS PROJECT — 0.5 day

Based on a group work, participants should prepare a:

- Stakeholder mapping.
- Social impacts identification and mitigation plan.

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Training - M&A in the Energy World

FAE-EN-P | Face-to-face only | 2 days

Current developments in the energy sector are expected to lead to a new wave of mergers and acquisitions (M&A). Traditional Oil & Gas players will have to adapt (or continue to adapt for the most advanced) their business portfolio to the energy transition, and also to meet the challenges of the recent health crisis. The growth of Renewable Energy could also lead to consolidation amongst the first entrants as the sector matures. The objective of this training is to enable participants to successfully manage their acquisition operations and/or asset sales so that they can best position themselves for the future

Level

Knowledge

Public

Oil & Gas, Renewables companies' commercial, technical, financial managers and support functions staff involved in external growth operations. Public administration decision makers and personnel (industry, finance, energy, environment)

Objectives

Attendees will be able to implement the following skills:

- Lead/contribute to an M&A project through a structured process
- Evaluate assets to buy or sell using different methods (e.g.: multiples, discounted cash flows)

Pedagogical & technical resources

- Exercises
- Analysis of recent transactions
- Case studies: setting the maximum purchase price
- Case study: Critical review of a sale and purchase contract clauses
- Quiz

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

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KEY STEPS & RISKS OF M&A TRANSACTIONS — 0.2 day

The various types of transactions: assets/equity.
The main stages of an acquisition/divestment project.
M&A transactions risks: key success factors.
Key participants in the process.

DETERMINING THE PURCHASE/SALE PRICE — 1 day

The different valuation methods: multiples (comparable transactions, EBITDA, PER), discounted cash flows.
Discounted cash flow method and analysis criteria refresher (NPV, IRR, Payback time). Calculating the residual value/terminal value.
Defining the maximum purchase price (or minimum sale price) taking into account synergies/di-synergies and risks.
Price adjustment options to manage uncertainties/close valuation gaps between buyer and seller.
Taking into account debt.

DUE DILIGENCE & DEAL STRUCTURING — 0.4 day

Preparing an information memorandum.
Risk management. The due diligence process and datarooms.
Choosing the legal and tax structure of the transaction.
Assessing the impact of competition laws.

NEGOTIATIONS & KEY CLAUSES OF SALE & PURCHASE AGREEMENTS — 0.4 day

Pros and cons of the various sale methods: auctions, negotiations.
Counterparties' assessment.
Conditions/ precedents.
Commitments and guarantees.
Completion adjustments.

Sessions

Rueil-Malmaison - From 09/08/2026 to 09/09/2026 — **1980 €/HT**

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Training - Introduction to Geothermal Energy Uses and Operations

GEOTHER-EN-P | Face-to-face only | 3 days

This course provides an introductory knowledge of geothermal energy uses and operations

Level

Awareness

Public

Technicians and decision makers of the G&G, Reservoir engineering, drilling, construction, production and maintenance domain but out of geothermy discipline

Objectives

Attendees will be able to implement the following skills:

- Understand how geothermal energy works, from production to usage
- Know about exploration and evaluation techniques
- Learn about technical and safety specifics in geothermal well drilling and operating

Pedagogical & technical resources

- Case studies
- Numerous illustrations and videos

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

PART I: INTRODUCTION TO GEOTHERMAL ENERGY

EARTH, AN ACTIVE PLANET

Earth structure and tectonics.
Thermal regime of the Earth.

HEAT FLUX & GEOTHERMAL GRADIENT

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Theoretical considerations on heat transport and storage in rocks.
The geothermal gradient.

RESERVOIR TYPES & USES

Dry rocks, porous and fractured reservoirs.
Geothermal single wells and doublets.
Geothermal heat exchanger.

DIFFERENT KINDS OF RESOURCES

Low temperature.
High temperature.

APPLICATIONS OF GEOTHERMAL ENERGY

Direct use of heat.
Power generation.

PART II: FROM EXPLORATION TO PRODUCTION

EXPLORATION

Exploration techniques.
Identification of potential reservoirs and geothermal resources.

DRILLING A WELL

Specifics of geothermal well planning.
Drilling issues: well stability and drilling fluid cooling.
Drilling risks: steam, gases, and seismic events.
Well stimulation.

EVALUATION

While drilling: mud-logging and temperatures.
After drilling: well evaluation and testing.

OPERATION HAZARDS

Geological.
Environmental.
Technical.

PRODUCTION

Geothermal plants and networks.
Pros and cons of geothermal energy.

Sessions

Rueil-Malmaison - From 11/02/2026 to 11/04/2026 **3390 €/HT**

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Training - Geothermal projects for Geosciences & Reservoir Professionals

GEOTPJT-EN-P

Face-to-face only

10 days

This course provides a clear view of geothermal projects from subsurface problematics to surface constraints, in order to accurately assess geothermal reservoirs and efficiently manage them along the whole geothermal project life

Level

Skilled

Public

Geosciences, Reservoir, Petroleum and Project Engineering teams (technicians and managers) involved in Geothermal projects.

Objectives

Attendees will be able to implement the following skills:

- Understand how geothermal energy works, from subsurface to surface
- Explain about exploration and evaluation techniques
- Grasp geothermal reservoir modelling
- Learn about technical and safety specificities in geothermal well drilling and operating
- Understand grid integration and operation challenges
- Evaluate economics of a geothermal project

Pedagogical & technical resources

- WAYS AND MEANS
- Numerous illustrations and videos
- Applied workshops
- Site visits

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

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INTRODUCTION TO GEOTHERMAL ENERGY, GEOLOGICAL AND GEOPHYSICAL EXPLORATION — 1.5 days

Geothermal gradient.
Rock Properties.
Theoretical considerations on heat transport and storage in rocks.
Basin Exploration.
Induced Seismic.

GEOTHERMAL RESERVOIRS — 1.5 days

Hydrogeology.
Geochemistry.
Link with Lithium mineral.
Reservoir Modelling.

WELL CONSIDERATIONS — 2 days

Geothermal well design.
Drilling and completion.
Risk Management.
Workshop on modelling and well performance.
Drilling site visit.

DEVELOPMENT, OPERATION & MAINTENANCE — 2 days

Surface Facility Design.
Grid Integration & Market-specific trends application.
Operation and Maintenance.

ECONOMICS — 2 days

Market and economics of renewable energies.
Regulation.
Business Case study: economic and financial evaluation.

SITE VISIT — 1 day

Visit of a Geothermal power plant.

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Training - Geographic Information Systems

GIS-EN-D | Distance only | 5 days

Geographic information systems are used in multiple processes today. The 5 days in Geographic Information Systems training aims at providing a complete spectrum of GIS potential over multiple disciplines dealing with spatial data

Level

Awareness

Public

Graduate from all technical disciplines

Objectives

Attendees will be able to implement the following skills:

- Understand the types of data that GIS supports and how to manipulate them
- Perform spatial analysis
- Create a decision-making model
- Integrate spatial and non-spatial data and integrate, manage and analyze data to produce information for decision-making

Pedagogical & technical resources

- Participative lecturing
- Case studies
- Teamwork/mini project

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION TO GIS

Understand the components, goals, and reasons so many professionals use GIS.

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GIS BASICS

Essential GIS concept and tools and data types; principle of cartographic geo-referencing.

COORDINATES SYSTEMS & PROJECTION

Introduction to principal coordinate system and projections.
Understand the datum and coordinates conversion. Maps classification.

GEOREFERENCING

Theory and practice of georeferencing. Error estimation and maps re-projection.

VECTOR & RASTER MODEL

Definition of raster and vector model. Concept of pixel, resolution and grid model. Definition of point, polyline, polygon. Shapefile model, table of attributes, field definition, records and entities.

DATA EDITING

Shapefile creation, graphic and alphanumeric editing.

GEOPROCESSING OPERATORS

Operators for extraction, selection, proximity and statistics. Data overlaying, intersection and buffering.

NUMERIC CARTOGRAPHY

Digitalization and standardization of cartography. Topographic databases and their characteristics.

GEODATABASE MODEL

Relational and object oriented geodatabase. Normalizations rules, database creation and maintenance.

SQL LANGUAGE

Presentation of SQL language for database interrogation. Usage of SQL syntax to extract data from a database. Definition of logical (AND, OR, NOT, XOR...) and mathematical operators.

TOPOLOGIES

Definition of topologies, relations among points, lines and polygons. Topological rules and their utilization.

RELATIONS, JOIN & SPATIAL JOIN

Creation of join and spatial join among shapefiles and tables. Rules definition and implementation.

RASTER ALGEBRA

Operations among raster data. Zonal and local operations.

SPATIAL DATA ANALYSIS

Performing data analysis on spatial data, criteria, potential and future development. Selecting features; interactive selection; select by attributes; select by location; using the right tool of selection.

DECISION MODEL CREATION

Creation of decisional models, validation and standardization.

GIS PROJECT CREATION

Consolidate all the knowledge with the creation of a complete GIS project.

LAYOUTS PRINTING & REPORTING

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Creation of printing layouts and automatic reporting.

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Training - Heat Exchangers

HEDES-EN-P

Face-to-face only

5 days

This course provides detailed understanding of heat exchangers technology. It covers also thermal and mechanical calculation methods used to design exchangers and their performance monitoring

Level

Expert

Public

Engineers and staff from the technical and process departments of refining, petrochemical and chemical companies

Objectives

Attendees will be able to implement the following skills:

- List advantages and drawbacks of TEMA Types and associate the most appropriate type with operating conditions and fluids properties
- Describe the heat exchange laws and identify key parameters impacting the exchange coefficients and pressure drops
- Define the required data used in HX design software and analyze the output file
- Elaborate, from a process data sheet, a TEMA specification data sheet used for HX construction

Pedagogical & technical resources

- A case study is organized throughout the training program to select, design and check performances of a single phase shell and tube heat exchanger, from the process data sheet to the TEMA specification data sheet
- Study of reboilers and condensers
- Special emphasis on interaction between mechanical aspects and process requirements in the thermal and hydraulic design of heat exchangers

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

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HEAT TRANSFER LAW APPLIED TO HEAT EXCHANGERS — 0.75 day

Heat exchange conditions: convection coefficients, resistance caused by the walls and by fouling.
Overall heat transfer coefficient. Mean heat potential in a heat exchanger as a function of fluid distribution, specific case of phase change. Transferred heat flow rate across an installed surface. Influence of installed area and fouling.
Application:

- Evaluation of exchange area requirements as a function of fluid flow distribution.
- Thermal performance follow-up and prediction.

TEMA STANDARD TUBULAR HEAT EXCHANGERS - TECHNOLOGY & SELECTION CRITERIA — 0.5 day

TEMA standard heat exchangers: nomenclature, different types of shell, floating heads and fixed front head.
Selection criteria, advantages and drawbacks of the different types.
Geometrical characteristics of TEMA heat exchangers and technological constraints.
Technological solutions to improve film coefficient or reduce shell side pressure drops: tubes inserts, type of baffle...
Application: selection of a TEMA type and fluid flow allocation according to a process data sheet.

THERMAL & HYDRAULIC DESIGN - PERFORMANCE FOLLOW-UP — 3.25 days

Heat exchanger design procedure: fluid flow allocation, TEMA type selection, heat exchange area estimate, area organization (tubes diameter and length, tube pattern and pitch), baffle (type, spacing and cut), shell side stream analysis, performance and geometrical hypothesis checking, acceptance criteria, reconsideration of initial design (number of shell in series or in parallel, number of tube passes...).
Vibrations induced by flow in a shell: prediction, severity criteria, influence on design.
Condensation or vaporization performance: two phase flow (patterns and pressure drop), condensation modes, film condensation, characteristics, boiling mechanisms, film boiling and convective boiling coefficient.
Hydrodynamics of thermosiphon reboilers.
Application:

- Thermal and hydraulic design of a single-phase heat exchanger.
- Initial design of condenser and reboiler.

PLATE TYPE HEAT EXCHANGERS — 0.5 day

Main type of plate heat exchangers: advantages and drawbacks. Limitations and application area.
Main design rules and arrangement possibilities (parallel, series...).
Application: heat exchange area to install in case of a perfect counter-current plate type HX.

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Training - Lithium: mineral system, exploration methods and assessment

LIGG-EN-P | Face-to-face only | 15 days

Lithium is a well-known element which has become a key component in battery industry and renewable energies technologies today. Although Lithium from mine is involving classic mining industry process, geothermal Lithium is crystallizing an increased interest. This training will present the Lithium mineral and its specificities and focus on the work-in-progress G&G workflow and further valorization

Level

Knowledge

Public

Experienced Geologists, Geophysicists, Reservoir Engineers and technical staff involved in Lithium projects' evaluation and deployment.

Objectives

Attendees will be able to implement the following skills:

- Understand the Lithium geology
- Grasp key figures to evaluate Lithium resources
- Discuss the geopolitical stakes

Pedagogical & technical resources

Participants will be evaluated during the training through a quiz and practice on case studies

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

GEOLOGY & GEOPHYSICS FOR LITHIUM EXPLORATION — 5 days

Sedimentology. Basin analysis.
Focus on evaporite systems.
Lithium and mines.
Lithium and geothermy. Geochemistry. Associated minerals. Induced seismicity.

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RESSOURCES EVALUATION — 5 days

Assessment of resources (Geophysics, coring, mining).
Specificity of geothermal lithium for resources evaluation.
Reservoir modelling workshop / Case study.

GEOPOLITICAL ASPECTS — 2 days

Production / consumption / life cycle.

FIELD TRIP — 3 days

e.g. Outcrops, cores (Alsace).
e.g. Mines (Allier/Limousin).
e.g. Visit of geothermal power station (Paris region).

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Training - Economic and Financial Modelling of Renewable Energy Projects

MPER-EN-P | Face-to-face only | 3 days

This course provides a better understanding of the use of decision-making tools in the field of renewable energy projects and incorporate risk analysis in the economic & financial evaluation

Level

Skilled

Public

Economists, engineers and financial analysts concerned with decisions affecting medium and long-term cash flows, such as investment, disinvestment, acquisitions, who need to improve their understanding of the theory and practice of investment analysis in the renewable energy sector

Objectives

Attendees will be able to implement the following skills:

- To carry out investment profitability studies in renewable energy projects including all aspects of fiscal incentives, inflation, and financing up to the Levelized Cost Of Electricity (LCOE) evaluation
- To analyze the deterministic economic results and carry out sensitivity analysis
- To incorporate the risk and uncertainties in the economic evaluation of renewable projects

Pedagogical & technical resources

Case studies simulated on computers

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

ECONOMIC CRITERIA FOR DECISION MAKING — 1.5 days

Cost of capital and discount rate, value creation.
Economic criteria for project evaluation: net present value (NPV), internal rate of return (IRR), payback period, etc.
Methodology for assessing the global profitability of capital invested.
Impact of taxation and inflation on economic indicators.

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Choosing an investment program with a limited budget, scarcity cost of capital.
Case studies: solar photovoltaic & wind power plant projects

ECONOMIC COST ANALYSIS — 0.5 day

Accounting cost vs. economic cost. Total discounted cost, annual economic cost.
Unit economic cost analysis vs. Levelized cost of electricity (LCOE).
Optimal economic lifetime (average cost & marginal cost).
Cases studies: LCOE of power plants, definition of an optimal economic lifetime.

IMPACT OF FINANCING ON PROJECT ECONOMICS — 0.5 day

Financing of renewable energy projects (ring-fencing and SPV concept).
Project finance valuation for renewable energy projects.
Different financing plans and debt repayment.
Return on equity (IRR and NPV of equity) and financial leverage.
Determination of the optimal electricity tariff leading to project economics balance.
Case studies: Solar photovoltaic and wind farm projects with specific financing.

RISK ANALYSIS OF RENEWABLE ENERGY PROJECTS — 0.5 day

Overview of resource assessment in renewable projects (wind & solar).
Probabilistic distribution approach (statistical & seasonal analysis of production, P99, P90 & P50 statics).
Risk matrix, risk classification and strategies for risk mitigation.
Risk evaluation using break-even price and sensitivity analysis.
Risk analysis using spider and tornado diagram.

CASE STUDIES

Solar photovoltaic project.
Wind power plant project.
Equipment optimal economic lifetime.
Power plant project.

Sessions

Rueil-Malmaison - From 12/09/2026 to 12/11/2026 — **3380 €/HT**

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Training - Overview and Challenges of the Energy Mix

MXE-EN-P | Face-to-face only | 4 days

This course aims to provide an updated overview of the energy sector and the upcoming economic, political and environmental challenges (Covid-19, climate change, supply and demand crisis, unconventional Oil & Gas...). Participants will get a complete overview of both fossil fuels and renewable energy sources, with their respective benefits and burdens

Level

Knowledge

Public

Engineers from the energy sectors (oil, gas, renewables, power), industrial partners, executives (banking, insurance, consulting), public administration staff, PhD and postgraduate students

Objectives

Attendees will be able to implement the following skills:

- Describe the main stages (upstream, downstream, trading) of the oil and gas sectors and understand the technical and economic characteristics of hydrocarbons (production, outlets, availability, market)
- Analyze the advantages and disadvantages of each energy and interpret the evolution of factors affecting the supply and demand of the energy mix
- Identify the actors of the energy scene and their strategic lines (states, international organizations, public and private companies in the sector)
- Understand the role of renewable energies in the energy mix (maturity, intermittency, carbon footprint)

Pedagogical & technical resources

- Quiz and videos on the fundamentals of the energy sector
- Board game about the different steps of an oil or gas project
- Team game on the composition of the energy mix and the role of renewables
- Team game on factors affecting crude prices, the upstream sector and trading

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

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INTERNATIONAL ENERGY SCENE — 0.5 day

Energy resources: definition, characteristics, conversion factor.
Climate change & energy transition: supply/demand asymmetry, Kaya's identity analysis.
Short and long-term forecasts (Covid-19 crisis, supply situation, climate change) and IEA scenarios.

OIL SECTOR ISSUES — 1 day

Stakeholder's strategy: NOC, IOC, majors, international organizations.
Upstream: stages and technical-economic aspects of the Exploration-Production.
Oil contracts and principles of oil rent sharing.
Downstream: refining economics and margins, capacity and new projects.

GAS SECTOR ISSUES — 1 day

Structure of the gas value chain: production, treatment, transportation, storage.
Pros and cons: natural gas and LNG in the energy transition.
Markets & grids, introduction to gas contracts.
Focus on current trends: crisis, market, evolutions, technological breaks...

RENEWABLES ISSUES & ENERGY TRANSITION — 1 day

Overview of the main renewables: solar, wind, hydro, bio, geothermal.
Comparison and competition: outputs, costs, availability, pros, limits.
CCUS technology and use of renewables in the Oil & Gas sector.
Stakeholders' strategy and supply chain presentation.

CASE STUDIES — 0.5 day

Economic calculations on Oil & Gas and renewables projects.
Opex, capex, revenues, assumptions, taxable income, cash flows, IRR.

Sessions

Rueil-Malmaison - From 09/29/2026 to 10/02/2026 — **3360 €/HT**

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Training - Overview and challenges of renewable energies

PANENR-EN-P | Face-to-face only | 3 days

This training provides a global vision of renewable energies, their share in the European and global energy mix, as well as a technical and economic overview of the available solutions

Level

Awareness

Public

People interested in the energy transition, renewable energies and decarbonation issues

Objectives

Attendees will be able to implement the following skills:

- Briefly describe the techniques used in the different renewable energy production sectors
- List the main advantages and disadvantages of these production chains

Pedagogical & technical resources

- Provision of introductory material prior to the training course
- Sub-groups activities, business cases, educational games
- Illustration by concrete industrial cases and current events

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

ENERGY TRANSITION AND CURRENT CONTEXT — 0.5 day

World energy scene: supply & demand, actors, findings and perspectives.
The place of renewable energy in the French, European and global energy mix.
Neutrality, budget and carbon bubble: commitments, constraints, risks and opportunities.
Energy & Climate: decarbonation and electrification.

SOLAR ENERGY — 0.5 day

Different production methods: thermodynamic, photovoltaic, thermal, passive.

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Technology and state of the art - Main production sites and current projects.
Main applications.
Cost of electricity production and GHG emissions during the life cycle.
Application: Sizing of a production plant.

WIND ENERGY — 0.5 day

Different production methods: Onshore – Offshore – Floating. Advantages and disadvantages.
Different types of wind turbines. Principle of operation.
Technology and state of the art - Distribution of production in the world.
Cost of electricity production and GHG emissions during the life cycle.
Application: Analysis of a production site.

BIOENERGIES — 0.5 day

Biomass, Biogas and Biofuels - Associated technologies and end uses.
Place of bioenergy in France and in Europe.
State of the art and main projects in progress.
Cost of electricity production.
Application : Production of biogas by methanization.

MARINES ENERGIES — 0.25 day

Main production methods: hydroelectricity, tidal, current, wave, osmotic.
Current state of art and main projects underway.
Cost of electricity production and life cycle GHG emissions.

GEOTHERMAL ENERGY — 0.25 day

Geothermal energy for power and heat production - Main technologies.
Advantages and disadvantages - Impact on the environment.
Integration with existing production sites.
Cost of electricity production and life cycle GHG emissions.

HYDROGEN INDUSTRY — 0.5 day

Hydrogen: an energy carrier.
The different colors of hydrogen depending on the production method.
End use of hydrogen. Constraints of use.
State of the art and main projects in progress.

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Training - Rig Inspection (Audit)

RIGINS-EN-D | Distance only | 5 days

To provide in-depth knowledge in the rig selection, inspection (audit) and acceptance

Level
Expert

Public
Drillers, Tool pushers, supervisors, drilling engineers and rig managers involved in rig selection, inspection & acceptance

Objectives
Attendees will be able to implement the following skills:
Attendees will be able to implement the following skills:
- Early detection of equipment or system issues or specification discrepancies to prevent project delays and start-up problems,
- Identification and resolution of equipment risks and certification issues.
- Prevention of costly corrective actions and downtime due to equipment failures.

Pedagogical & technical resources
- Some equipment and cutaway tools are available at IFP.
- Summary notes prepared and presented by participants.
- Use of full-size simulator
- Case studies according to international standards

Assessment of achievements
- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites
Engineering or operational exposure

Responsable
IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION TO RIG SYSTEMS & SPECIFCATIONS — 0.25 day

Rig types & categories.
Main rig function, systems & requirements:
- Power, hoisting, rotation, fluids & circulation systems.

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- Solid control equipment.
- BOPs & well-controlled equipment.
- Rig instrumentation.

Rig sizing & capacities.

RIG INSPECTION CONCEPTS 0.75 day

Rig inspection concepts & basics:

- Standards for rig inspection.
- Guidelines for rig inspection & acceptance tests.
- Criteria for rig inspection.

RIG INSPECTION & ACCEPTANCE CRITERIA 2.75 days

Drilling Equipment: hoisting, drill floor & pipe handling equipment.
Mud system: pumps, mixing equipment & solid control equipment.
Well Control Equipment: rams preventers, annular preventer, diverter, choke & kill lines & manifolds and BOPs control unit (accumulators).
Drill String: failures, inspection methods – NDT, dimensional inspection, visual inspection, magnetic particles, electromagnetic inspection & ultra sonic inspection.
Power System (diesel / electric): Diesel Engines, Main Generators, SCR System, AC/DC Motors.
Lighting Systems, Safety and Environment Inspection, Fire Fighting Equipment, Gas Detection Equipment.
Lifting and Load Handling Equipment.
House keeping.
First Aid.
Storage Capacity.
Accommodation & Living Facilities.
Rig Management System.
Rig Inventory.

KNOWLEDGE ASSESSMENT 0.25 day

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Training - Rig Inspection (Audit)

RIGINS-EN-P | Face-to-face only | 5 days

To provide in-depth knowledge in the rig selection, inspection (audit) and acceptance

Level
Expert

Public
Drillers, Tool pushers, supervisors, drilling engineers and rig managers involved in rig selection, inspection & acceptance

Objectives
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Prerequisites
Engineering or operational exposure

Responsable
IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION TO RIG SYSTEMS & SPECIFCATIONS — 1.25 days

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- Rig instrumentation.

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Power System (diesel / electric): Diesel Engines, Main Generators, SCR System, AC/DC Motors.
Lighting Systems, Safety and Environment Inspection, Fire Fighting Equipment, Gas Detection Equipment.
Lifting and Load Handling Equipment.
House keeping.
First Aid.
Storage Capacity.
Accommodation & Living Facilities.
Rig Management System.
Rig Inventory.

KNOWLEDGE ASSESSMENT — 0.25 day

Sessions

Pau - From 12/07/2026 to 12/11/2026 — **4320 €/HT**

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Training - Successfully Developing Renewable Projects

RPER-EN-P | Face-to-face only | 3 days

Limiting climate change requires a strong acceleration of the introduction of new Renewable energy production facilities. This training provides participants with a structured methodology to assess and develop renewables projects. The toolkit they will be given will enable them to overcome the potential difficulties of these to ensure their success, be it, for example, in terms of community engagement or financing

Level

Knowledge

Public

Business development staff & supporting functional staff, technical managers, new economists and finance staff of energy companies, investors, bankers, public decision makers promoting new energies (industry, finance, energy, environment)

Objectives

Attendees will be able to implement the following skills:

- set the different stages of the societal, commercial, economic and financial development of a renewable electricity wind, solar or battery project and list key contracts
- build an economic model of a wind or solar project and identify the risks
- manage stakeholders and evaluate possible financing options

Pedagogical & technical resources

- Exercises
- Case study: economic evaluation and financing of a renewables project
- Focus on solar, wind and batteries projects
- Examples from various countries

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

GOVERNANCE/PROJECT MANAGEMENT — 0.25 day

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Introduction. Summary review of electricity market supply and demand and the competitive environment.
Key players and key steps of a renewables project.

MARKET ACCESS — 1 day

Route to market : auctions, Purchasing Power Agreements, the various typical contracts required in a renewables project.
Optimization, intermittency of variable renewables, batteries, hybrid projects.
Partnering.
Risk management: Pestel analysis, sensitivities, scenarios.
Stakeholder management.

BUSINESS CASE ASSESSMENT — 1 day

Cost of capital and discounted cash flow methodology.
Assessing revenues, costs and investments.
Building up future cash flows taking into account taxes and inflation.
Economic indicators calculation (NPV, IRR, Payback Time, economic cost).

FINANCING — 0.75 day

The various sources of financing (in particular Project Financing, Green Bonds).
Prerequisites: “bankability”.
Shareholder profitability analysis (geared economics).

Sessions

Rueil-Malmaison -	From 04/21/2026 to 04/23/2026	**2970 €/HT**
Rueil-Malmaison -	From 10/06/2026 to 10/08/2026	**2970 €/HT**

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Training - Wireline, Slickline Operations

WLSLO-EN-D | Distance only | 5 days

This course provides the required comprehensive knowledge and skills for Wireline, slickline well intervention

Level

Knowledge

Public

All personnel involved in slickline or wireline operations, including well intervention and workover personnel

Objectives

Attendees will be able to implement the following skills:
Attendees will be able to implement the following skills:

- Understand the function of each equipment used in wireline, slickline operations,
- Select the right equipment to fit to purpose,
- Execute, supervise and ensure safety during the operations (HSE),
- Communicate effectively with other personnel involved in operations

Pedagogical & technical resources

- Participative lecturing
- Several animations & videos
- Numerous exercises.

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisite for this course.

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

TYPES & MEANS OF INTERVENTION ON PRODUCING WELLS — 0.25 day

Main types of intervention: measurement, maintenance, workover.
Introduction to main means (wireline unit, coiled tubing unit, snubbing unit, workover rig): principles, area of application...

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WIRELINE UNITS & SURFACE EQUIPEMENT — 1.25 days

Wireline operations, safety during operations.
Wireline units & surface equipment:

- Slick line, braided line & E-line and their characteristics.
- PCE: Stuffing box, grease injection head, lubricator, WL BOPs.
- Depth indicator, weight indicator, WL Clamps...

WIRELINE, SLICKLINE TOOL STRING — 1.25 days

Wireline tool string (rope socket, stem & snicker bar, jars, knuckle joint, running tool).
Running & pulling tools.
Shifting tools.
Maintenance tools.
Fishing tools.

WIRELINE & SLICKLINE OPERATIONS — 2 days

Pressure control equipment (installation, testing & troubleshooting).
Barrier's philosophy.
RIH/POOH procedures.
Fishing procedures.
Safety during operation.
Case studies.

KNOWLEDGE ASSESSMENT — 0.25 day

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Training - Wireline, Slickline Operations

WLSLO-EN-P | Face-to-face only | 5 days

This course provides the required comprehensive knowledge and skills for Wireline, slickline well intervention

Level

Knowledge

Public

All personnel involved in slickline or wireline operations, including well intervention and workover personnel

Objectives

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Pedagogical & technical resources

- Participative lecturing
- Several animations & videos
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Assessment of achievements

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Prerequisites

No prerequisite for this course.

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

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Wireline tool string (rope socket, stem & snicker bar, jars, knuckle joint, running tool).
Running & pulling tools.
Shifting tools.
Maintenance tools.
Fishing tools.

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Barrier's philosophy.
RIH/POOH procedures.
Fishing procedures.
Safety during operation.
Case studies.

KNOWLEDGE ASSESSMENT — 0.25 day

Sessions

Pau - From 04/13/2026 to 04/17/2026	**4320 €/HT**
Pau - From 11/16/2026 to 11/20/2026	**4320 €/HT**

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