

## Diploma in Petroleum Project Management & Field Development Economics

### Course Objective:

This diploma course in collaboration with Lincoln Professional Academy empowers students with comprehensive knowledge and hands-on experience in managing petroleum projects, emphasizing effective project planning, economic evaluation, and risk management strategies tailored to the oil and gas industry. Through real-world case studies and practical activities, participants develop essential skills to manage complex petroleum projects from conception to completion, preparing them to excel in high-demand roles within the industry.

### Benefits of joining our Diploma program:

## BENEFITS

- ✓ Acquire high-demand project management skills specific to oil and gas.
- ✓ Industry-recognized certification to enhance your resume.
- ✓ Comprehensive understanding of petroleum project lifecycle and economics.
- ✓ Real-world training through hands-on projects and simulations.
- ✓ Specialized risk management and safety expertise.
- ✓ Master advanced tools like MS Project and Primavera.
- ✓ Network with industry professionals for future opportunities.
- ✓ Prepare for lucrative roles in project management and field economics.

### Learning Outcomes:

- ✓ **Master Essential Project Management Skills:** Develop comprehensive project management capabilities tailored to the petroleum industry, covering the entire project lifecycle and field development.
- ✓ **Evaluate Projects Using Economic and Financial Metrics:** Gain the skills to assess project profitability and feasibility with confidence using tools like NPV, IRR, and cash flow analysis.
- ✓ **Implement Risk Management and Strategic Planning:** Understand and apply risk assessment and mitigation strategies to optimize project success



- ✓ **Excel in Team Leadership and Stakeholder Engagement:** Hone leadership, communication, and team management skills, equipping you to lead multidisciplinary teams effectively.
- ✓ **Use Advanced Project Tools and Software:** Gain proficiency in tools like MS Project and Primavera, enhancing your ability to manage project timelines,

**Total Duration: 60+ Hours (3Months)**

**Prerequisites:**

For Freshers: Basic knowledge of the oil and gas industry or a strong interest in learning about petroleum project management. For Professionals: Industry experience or a foundational understanding of project management principles.

**Hiring Partners:**



We understand the importance of bridging the gap between academic learning and real-world industry experiences. Through strategic collaborations with leading organizations, we provide our students with enriching opportunities for placements and internships. Here's a closer look at some of our valued industry partners, it will open opportunities for

- ✓ **Placements**
- ✓ **Internships**
- ✓ **Career opportunities**



## Agendas:

### Module 1: Introduction to Project Management in the Petroleum Industry

- Overview of Project Management Fundamentals
- Importance of Project Management in Petroleum Projects
- Key Project Management Phases: Initiation, Planning, Execution, Monitoring, and Closure
- Role of the Project Manager in Petroleum Projects

Practical Activity: Case study analysis of a petroleum project.

### Module 2: Petroleum Industry Operations & Project Lifecycle

- Overview of Upstream, Midstream, and Downstream Projects
- Exploration and Production (E&P) Project Life Cycles
- Typical Project Phases in Oil & Gas: Feasibility, Engineering, Procurement, Construction, Commissioning, and Handover
- Understanding Project Constraints: Scope, Time, Cost, and Quality



Practical Activity: Develop a project lifecycle chart for a hypothetical oil & gas project.

### Module 3: Field Development Planning (FDP)

- Concept of Field Development Planning
- Steps in Developing a Field: Exploration, Appraisal, and Development
- Types of Petroleum Fields: Onshore, Offshore, Deepwater, Shale
- Production Profiles, Recovery Rates, and Production Strategy
- Regulatory and Environmental Considerations in FDP

Practical Activity: Create a simplified Field Development Plan for a discovered oil field, including key milestones.



### Module 4: Project Planning and Scheduling

- Developing a Project Plan (Scope, Objectives, Deliverables)
- Work Breakdown Structure (WBS) and Task Dependencies
- Introduction to Gantt Charts and Critical Path Method (CPM)
- Resource Allocation and Schedule Optimization

Practical Activity: Create a Gantt Chart and WBS for a drilling project using project management software (e.g., MS Project or Primavera).

### Module 5: Petroleum Economics and Financial Modeling

- Introduction to Petroleum Economics: Key Concepts (Net Present Value (NPV), Internal Rate of Return (IRR), Payback Period)



- Cash Flow Analysis in Oil & Gas Projects
- CAPEX and OPEX Estimation
- Economic Evaluation of Oil and Gas Fields
- Sensitivity and Scenario Analysis

**Practical Activity:** Perform an economic evaluation of a field development plan, using NPV and IRR to assess profitability.

### **Module 6: Risk Management in Petroleum Projects**

- Identifying and Assessing Risks in Oil & Gas Projects
- Risk Categories: Operational, Financial, Environmental, and Political
- Risk Response Strategies: Avoidance, Mitigation, Transfer, and Acceptance
- Developing a Risk Management Plan

**Practical Activity:** Conduct a risk assessment and develop a risk management plan for an offshore project.



### **Module 7: Cost Estimation and Budgeting**

- Cost Estimation Techniques: Bottom-Up, Parametric, Analogous
- Project Budgeting in Petroleum Projects
- CAPEX and OPEX in Oil and Gas Projects
- Cost Control and Monitoring: Earned Value Management (EVM)

**Practical Activity:** Develop a cost estimate and budget for a well drilling project.

### **Module 8: Procurement and Contract Management**

- Procurement Processes in Petroleum Projects
- Types of Contracts: Lump Sum, Cost-Plus, Time & Material
- Vendor Selection and Management
- Contract Risk and Performance Monitoring

**Practical Activity:** Draft a procurement plan and basic contract structure for a midstream project.

### **Module 9: Health, Safety, and Environment (HSE) in Project Management**

- HSE Regulations in Petroleum Projects
- HSE Risk Assessment and Mitigation Strategies
- HSE Management Systems and Safety Audits
- Incident Response and Emergency Planning

**Practical Activity:** Prepare an HSE plan for a construction project in the oil field.

### **Module 10: Leadership and Team Management**

- Leadership Styles in Project Management
- Effective Communication in Multidisciplinary Teams
- Conflict Resolution and Problem Solving
- Stakeholder Management and Engagement





Practical Activity: Role-playing activity to simulate conflict resolution within a project team.

### Module 11: Project Execution and Monitoring

- Project Execution Strategies in Petroleum Projects
- Performance Metrics and KPIs for Petroleum Projects
- Project Tracking Tools (e.g., Dashboards, Earned Value Analysis)
- Handling Scope Changes and Project Variations



Practical Activity: Develop a project monitoring dashboard for a refinery construction project.

### Module 12: Project Closeout and Lessons Learned

- Project Handover Procedures and Documentation
- Final Project Audits and Reviews
- Capturing and Sharing Lessons Learned
- Continuous Improvement in Petroleum Projects

Practical Activity: Create a closeout report for a completed oil field development project.

### Final Assessment

- Final Project Presentation: Students present their project plan, including planning, risk management, field development, and cost estimation for a petroleum project.
- Course Completion and Feedback Session

### Key Benefits



🔧 **Career-Ready Expertise:** Gain specialized project management skills highly valued in the petroleum industry, making you a strong candidate for roles in field development, project management, and petroleum economics.

🔧 **Hands-On Learning for Real-World Impact:** Participate in practical exercises and

simulations that prepare you to lead complex projects, manage teams, and make strategic decisions from day one on the job.

🔧 **Certification for Career Advancement:** Attain a diploma that highlights your expertise, setting you apart in the job market and increasing your prospects for career progression in oil and gas.



- ✚ **Expanding Industry Networks:** Build valuable connections with industry professionals and peers, opening doors for future opportunities, mentoring, and career growth.
- ✚ **Comprehensive Knowledge of the Project Lifecycle:** From initiation to closeout, understand every phase of project management in the petroleum sector, making you an asset in any project-driven role.

### Frequently Asked Questions (FAQs):

- a) Who is this diploma course for?  
It's ideal for professionals in the oil and gas sector or fresh graduates aiming to pursue project management roles.
- b) What are the prerequisites for joining?  
Basic understanding of the oil and gas industry; freshers with an interest in petroleum project management are welcome.
- c) What career paths can this course open for me?  
Roles in project management, field development planning, and petroleum economics across the oil and gas sector.
- d) Are there any hands-on activities?  
Yes, each module includes case studies, practical exercises, and project simulations.
- e) What is the final assessment?  
Students will present a complete petroleum project plan covering all essential project management phases.
- f) Is there support for job placement after the course?  
Yes, we offer networking events and provide access to industry job portals.
- g) What project management tools will I learn?  
MS Project, Primavera, and industry-standard tools for scheduling, budgeting, and project monitoring.
- h) Can I pursue this diploma part-time?  
Yes, the course is structured to accommodate part-time learners.
- i) What will be the fee of this program?  
fees – 300 USD or 22,500 INR (Discounted offer for first 10 participants)
- j) Is there a certification upon completion?  
Yes, a recognized diploma certificate from Lincoln Professional Academy in Petroleum Project Management will be awarded.



- k) How will this course benefit me as a fresher?  
 It builds foundational skills in project management, making you job-ready for entry-level roles in petroleum project management.

**Time Table:**

Weeks	Dates	Timings
Week 01	11-01-2025	Weekends - Sat & Sun 7:30 PM IST or 2:00 PM GMT
	12-01-2025	
Week 02	18-01-2025	
	19-01-2025	
Week 03	25-01-2025	
	26-01-2025	
Week 04	01-02-2025	
	02-02-2025	
Week 05	08-02-2025	
	09-02-2025	
Week 06	15-02-2025	
	16-02-2025	
Week 07	22-02-2025	
	23-02-2025	
Week 08	01-03-2025	
	02-03-2025	
Week 09	08-03-2025	
	09-03-2025	
Week 10	15-03-2025	
	16-03-2025	
Week 11	22-03-2025	
	23-03-2025	
Week 12	23-03-2025	
	24-03-2025	

**Feedbacks from our Previous trainees:**



**Brandon Joseph (Placed in Petronas Malaysia)**

Very interesting course. Enjoyed it even more due to the integration of data science in theory alongside industry case study through the simulation of a mock up industry standard project experience. If you don't have access to these materials at hand, this course presents all you need, from understanding the fundamentals of data science and integrating it to solve engineering challenges in our oil & gas sector. The instructors were very experienced and easy to follow! Definitely recommend this course to anyone looking to further delve into the realms of data analytics within the O&G sector



**Mansour Khosravi (Petroleum Geologist, Illinois State Geological Survey)**

I've participated in two training courses that conducted by Edvantage, both were very informative training and honestly, I learnt a lot. Both instructors knowledgeable and get ready to answer any questions related to their courses. The instructor for sequence stratigraphy course always articulates the details of the topic into understandable information that could be retained for everyone. Python class was very informative, and I recommend this type of class for those students willing to learn from scratch. the instructor expertise in programming and machine learning makes him a very high-level instructor and able him to answer all of the questions brought up in class very fast.



**Name: M Faiz Nurrohman**

Hi, my name M Faiz Nurrohman, i would like to share feedback on the course "Data Science and Its Application in Oil and Gas". Overall, the explanation from the speaker is very easy to understand. And in this course, we can ask questions if we still don't understand the material given. We are also given questions to test our abilities so that we can implement the material that has been given. And I'm sure this course will be useful for me in the future.

**Name: Anas Babai**

**Designation: Geoscience Lecturer in University of Bahri & +3 working experience in oil Industry & Ph.D. scholar**

My Name is Anas Babai I would like to share my feedback on the course" Data Science and its applications on oil and gas", I was looking toward such course since it matches my career orientation. The course content was designed to cover almost most aspects of data science, and the way things were explained was very simple making it easy to understand even for those who don't have data science experience, starting form covering most used Python libraries, SQL database and projects. I believe this course will put anyone in the right track toward mastering data science and ML. I highly recommend this course to everyone. My deepest gratitude to Edvantage for organizing this course.







**Name: Hojatollah Gholami**

**Designation: PhD Candidate at University of Sistan and Baluchistan**

I, Hojatollah Gholami, would like to share feedback on the course "DATA SCIENCE AND ITS APPLICATION IN OIL AND GAS". Overall, the course has been very comprehensive and understandable so far. The instructors provide useful information about this course and make sure that students receive it well. Online classroom management is well done, and the courses learning approved with exercises and support. This course is designed so that we can practically do a data science project using Python. I like this course and find it useful; it was very objective and direct. I am sure it will be very useful in my life as a professional. Thank you so much for this great course.

**Name: Fakhrr Novianto**

**Designation: Bachelor of Engineering - BE, Teknik Geology/Geophysical, Universitas Pembangunan Nasional Veteran Yogyakarta.**

Hi, I'm Fakhrr Novianto, would like to share feedback on the course "DATA SCIENCE AND ITS APPLICATION IN OIL AND GAS". The lessons delivered are very clear and easy to understand for me, besides that the teacher provides interesting case studies in the application of the formulas used in data analysis. Interactive learning is very helpful for us in solving problems in writing program code. Assignments given to participants make participants more sensitive and accustomed to practicing what they have learned that participants can confirm their understanding of the tasks given. Thank you.



## Enrolment Information

Ready to Advance Your Career?

**ENROLL NOW**

**Enroll now** in the Diploma in Petroleum Project Management & Field Development Economics and be part of a high-growth field that values project management expertise tailored to the petroleum industry. For more info details are given below:



+91 86583 24008



info@edvantage.org.in



<https://edvantage.org.in>