

2021년도 제1차 해외전문교육 개요

1. 교육 개요

- 일시/방법 : 2021. 3. 22(월)~3. 25(목), 09:00~13:00 / 원격교육(Webex)
- 개 최 : 재단-포스코인터내셔널
- 기관/강사 : Schlumberger NExT(미국) / Jeannie Boubel Smith
 - * 강사 이력 [첨부1] 참조
- 주 제 : Economics of Worldwide Petroleum Production
 - 경제성 평가, 투자 기회 평가, 예측 기법을 사용한 의사결정 대안 평가 등
- 분야/수준 : Commercial / 중급

2. 주요 교육 내용

- 기본적인 현금 흐름과 순현재가치에 대한 학습을 통해 석유 경제학에 대한 이해도 향상
- 세계 각국의 재정 체제의 주요 유형을 파악하고 잠재적인 석유와 가스 투자에 대한 평가 방법 습득

<교육 커리큘럼>

구분	3.22(월)	3.23(화)	3.24(수)	3.25(목)
내 용	- 프로젝트 경제학 · 평가 방법 · 프로젝트 수명주기 및 관계자 · 일반적인 유형의 석유 및 가스 업스트림 프로젝트 · 생산, 가격 및 비용 예측	- 현금 흐름 및 경제 지표 · 매출 및 운영 비용 정의 · 자본 지출 · 할인 및 현재 가치 · 경제 지표	- 재정 체제 · 재정제도의 주요 유형과 요소 · 양허 시스템 및 생산 공유 계약에 대한 현금 흐름 · 서비스 계약 · 재정 시스템의 현재 동향	- 프로젝트 투자 분석 · 위험, 민감도 분석 및 EMV 및 ENPV 계산 정의 · 증분 투자 분석 · 다중 프로젝트 분석 및 비교 · 자본 예산 책정 및 프로젝트 선정 프로세스

* 강의계획서(교육기관 제공) [첨부2] 참조

첨부1

강사 주요 이력

○ 강사명 : Jeannine Boubel Smith

○ 국 적 : 미국

○ 학 력 : Texas A&M 석유공학 학사, Northcentral 대학 글로벌 교육
및 개발 전문 석사

○ 주요 경력

- (2016~현재) MoreValue LLC 사장
- (2011~2016) Schlumberger NExT 커리큘럼 감독
- (2009~2011) Schlumberger SIS 훈련 프로그램 매니저
- (2008~2009) Schlumberger SIS 수석 기술 고문
- (1999~2008) Schlumberger SIS 기술영업 및 컨설팅, 비즈니스 개발 매니저
- (1993~1998) Pennzoil E&P 저류공학 엔지니어 및 자산팀장
- (1990~1993) National Energy Group 수석 엔지니어
- (1981~1990) Mobil E&P, 생산, 시설 엔지니어

<참고> 강사 영문 이력서

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Ms. Jeannine Boubel Smith

Helping oil and gas companies realize more value from their projects, properties, assets and portfolios through expert advice, consulting and training.

Education

B.Sc., Petroleum Engineering, Texas A&M University, College Station, Texas, 1981

M.Ed., with specialization in Global Training and Development, Northcentral University, 2013.

Expertise

- Petroleum Economics and Decision and Risk Analysis expert; additional expertise in Economics of Unconventional Resources
- Resources and Reserves estimation, classification, tracking, reporting, and management expert.
- Significant portfolio analysis and optimization experience including defining company strategy and goals and analyses of optimum portfolio and projects (operated and non-operated).
- General Reservoir Engineering and Reservoir and Asset Management including field development planning and implementation, production optimization, and improved and enhanced recovery for operated and nonoperated assets.
- General Production Engineering and Operations including artificial lift, surface facilities design and operation, well intervention, well testing, and production logging. Continuous monitoring of operated and non-operated assets.

Teaching, Mentoring and Coaching Experience

- Courses taught for NEXt and Schlumberger SIS from 1999 to present: Petroleum Economics, Oil and Gas Asset Management, Business of Petroleum, Production Exploration and Production, Decision and Risk Analysis, Portfolio Management, Reserves Tracking and Reporting, Best Practices for Technical Sales, Merak Business Overview for new Account Managers and many others.
- Schlumberger coach and mentor since 2003 to over 30 professionals worldwide in the Economics and Risk community.

Day 1**Project Economics**

- Methods of evaluation
- Project lifecycle and who is involved
- Common types of oil and gas upstream projects
- Forecasting production, prices and expenses

Participants will learn why project economics are necessary and the methods for economic evaluation. They will also learn about the project lifecycle and who is involved. During the course, common types of oil and gas upstream projects will be presented. The concepts and methods of forecasting production, prices and operating expenses will also be reviewed.

Day 2**Cash Flow and Economic Indicators**

- Defining revenue and operating expenses
- Capital expenditures
- Discounting and present value
- Economic indicators

On this day the cash flow stream will be constructed in detail, including company revenue, operating, and capital expenditures. In addition, the concepts of discounting and net present value will be presented and practiced. Multiple economic indicators will be discussed, including DPI, IRR, hurdle rate, WACC and more.

Day 3**Fiscal Regimes**

- The main types and elements of fiscal regimes
- Cash flows for concessionary systems and production sharing contracts
- Service agreements
- Current trends in fiscal systems

Participants will be introduced to the main types and elements of fiscal regimes around the world. They will also learn to build cash flows for concessionary systems and simple production sharing contracts. The different types of service agreements will be reviewed, and then investments under different fiscal regimes will be compared.

Day 4

Project Investment Analysis

- Defining risk, sensitivity analysis, and calculating EMV and ENPV
- Incremental investment analysis
- Multiple project investment analysis including project ranking
- The capital budgeting and project selection process

During this day participants will discuss and incorporate risk and sensitivity analysis in order to calculate EMV and ENPV. The purpose of incremental investment analysis will be presented. They will also review a general capital budgeting and the project selection process. Participants will then evaluate and make recommendations about potential oil and gas investments.