

2017년도 제3차 해외전문교육 개요

1. 개요

- 교육명 : Advanced Project Management
- 강사 : Dr. M. Salman Bilal
- 교육일시 : 2017. 9. 25(월) ~ 9. 29(금), 09:00~17:00 / 재단 강의실
- 개최 : 재단 단독 개최
- 교육분야 : Management
- 교육수준 : 심화(Advanced)
- 교육언어 : 영어
- 교육정원 : 20명(KOLNG 특별기금 출연사 및 협회 회원사 직원 대상)

2. 교육 내용

- 목적
 - 석유·가스 개발 프로젝트의 성공적인 완수를 위한 효율적인 계획 수립, 위험 요소 관리 및 조직 역량 강화
- 주요 내용 (세부내용 「첨부1」 참조)

구분	1일차	2일차	3일차	4일차	5일차
내용	Project Governance for Advance Project Management <ul style="list-style-type: none"> • Project Governance vs. Project Management • Project Governance: Domains & Functions • Governance Framework for Asset Management • Organizational Project Management (OPM) Governance • OPM & Governance Interactions • Governance Structures & Governance Responsibility Assignment Matrix • Governance at Project Level 	Risk Management Challenges, Reviews & Approvals <ul style="list-style-type: none"> • Risk Management vs. Risk Governance • Risk Appetite & Stakeholders revised Risk Tolerance • Risk Management Plan(RMP) & Risk Matrix(RM) Color Coding • RMP Development • Risk Identification • Risk Review: Qualitative vs. Quantitative Risk Analyses • Risk Register Approval & Deployment 1 	Contract Strategy & Procurement Management <ul style="list-style-type: none"> • Business Strategy triggered Contracts Types • Procurement Management specific Contracts • Risk Management based Contractual Decision-making • Contract Selection Criteria Evolution • Statement Of Work(SOW), Project SOW & Procurement SOW • Bidders Conference Dynamics • Contract Change/Termination Management 	Stakeholder, MIS & Interface Management <ul style="list-style-type: none"> • Stakeholder Engagement Management • Stakeholder Analyses at Portfolio, Program & Project Levels • Stakeholder Register & Interface Management • Communication Management Analysis & Calculation • IT to IS ~ Paradigm Shift • Re-configuring MIS in line with Business Analysis Protocols • Project Management Information System 	Engineering & Technology Management <ul style="list-style-type: none"> • Engineering Management Critical Success Factors • Engineering Design Challenges Strategic Enablers • New Product Development ~ Carbon Numbers • Pneumatics to Electronics to Artificial Intelligence • Integrating Engineering Design with Technology • Business-Engineering Integration • Counting SLC Project for QC & Risk Management

3. 강사 소개

□ 강사명 : Dr. M. Salman Bilal

□ 선정 사유 : 본 강사는 석유·가스 개발 관련 Project Management 분야에서 16년 이상의 경력을 갖춘 박사학위 소지자로서 해당 분야에 대한 풍부한 전문지식과 경험을 갖추고 있어 이번 교육 강사로 선정함.

□ 강사 등급 : A급

※ 「해외전문교육 강사 등급 기준」에 의거, 박사 학력 소유자이며 해당 분야 경력 10년 초과임.

<강사 주요 학력 및 경력>

주요 학력	<ul style="list-style-type: none"> - Ph.D., Engineering Management(Research Phase: Risk Matrix & Agile Project Management) - All eight(8) PMI®-USA credentials and certifications* 취득 * PMI®-USA credentials and certifications : Accredited Portfolio Manager(PfMP®), Program Manager(PgMP®), Project Manager(PMP®), Risk Manager(PMI-RMP®), Scheduling Professional(PMI-SP®), Agile Practitioner(PMI-ACP®), & Professional Business Analyst(PMI-PBA®) along with ASQ®-USA credential of Six Sigma(ASQ-CSSGB®)
주요 경력	<ul style="list-style-type: none"> - 다양한 석유개발관련 기업*에서 Well Testing Engineer, Instrument & Control Engineer 등 역임 * SCHLUMBERGER, BP, PETRONAS, EXXON-MOBILE, SHELL 등 - 프랑스, 사우디아라비아, 말레이시아 등에서 다양한 석유개발관련 프로젝트 수행 * SCHLUMBERGER, ENGRO CHEMICALS LTD. 등 - FCC 대학교에서 전기 공학, 생산 관리 및 PG 프로그램 교수 역임 등

4. 수강생 선정기준

- ① KOLNG 출연사 임직원에게 교육 정원의 50%(10명)를 우선 배정하고, 잔여 인원(10명)을 협회 회원사에게 무료 배정
- ② 협회 회원사는 정회원社 이상을 대상으로 하며, 회원사별로 교육인원이 고루 배정될 수 있도록 함(회원사당 2명씩 배정하는 것을 원칙으로 하나, 정원에 여유가 있을 경우 다수 배정 가능).
- ③ 협회 회원사의 신청인원이 전체 배정인원을 초과하는 경우, 재단에서 수강자를 결정하며 회장사-이사사-정회원사 순으로 우대

<첨부> 1. 강의 계획서(요약) 1부
2. 강사 이력서 1부. 끝.

<첨부1> 강의 계획서(요약)

Course title: Advanced Project Management

Course overview:

This five-day, specialized level course is for project managers, asset & resource managers, project control managers, and project engineers seeking an in-depth understanding of key topics associated with large domestic and international projects. This course is primarily aimed at "Value Transference" and not just focused at the efficient demonstration of Project Management Tools & Techniques related knowledge.

1. Name of instructor: **M. Salman Bilal**

2. Level of training: **Advanced**

3. Training contents:

This course provides advanced knowledge in project governance, risk management, reviews and approvals, stakeholder management, joint venture and non-operated projects, interface communication management, management information systems, contract strategy, and engineering & technology management.

4. Training schedule (summary)

Date	Program	Mode/Approach
Day 1	Project Governance for Advance Project Management	Artifact Illustrations / Models
Day 2	Risk Management Challenges, Reviews & Approvals	Facilitated Workshops
Day 3	Stakeholder Management, Interface Management & MIS	Class Activity & Simulations
Day 4	Contract Strategy & Procurement Management (JV, etc.)	Contracts Reviews / Activities
Day 5	Engineering & Technology Management	Case Study & Field Scenarios

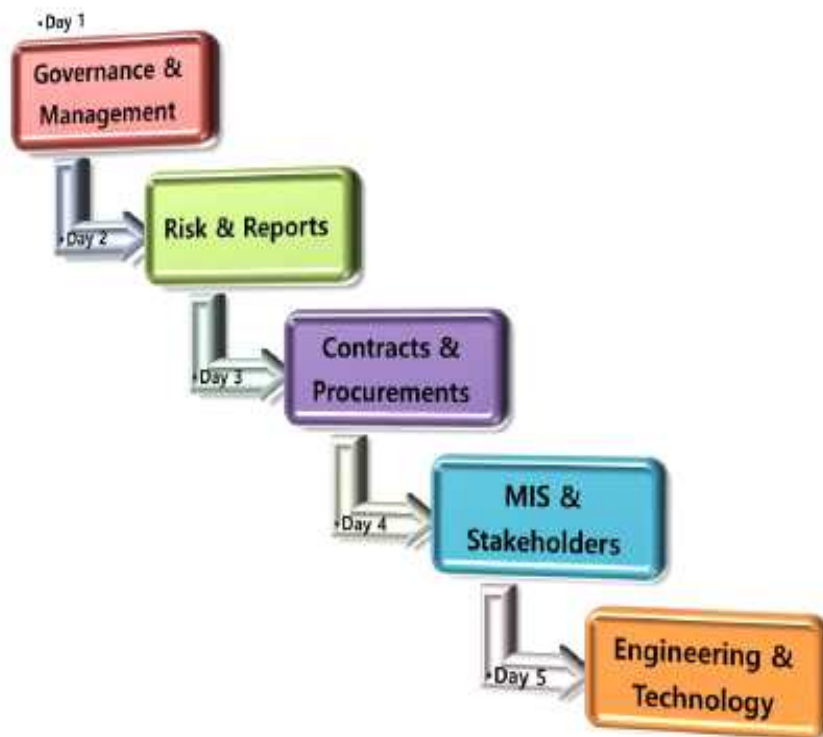
5. Daily lesson plan

Day 1	0900 - 1300	DAY 1 ~ Project Governance for Advance Project Management <ul style="list-style-type: none"> Project Governance versus Project Management (<i>Critique</i>) Project Governance: Domains & Functions (<i>Graphical Interpretations</i>) Governance Framework for Asset Management (<i>Class Activity</i>) Organizational Project Management (OPM) Governance (<i>Model</i>)
		1300 - 1400

	1400 - 1700	<ul style="list-style-type: none"> • OPM & Governance Interactions (<i>Interconnectivity Paradigm</i>) • Governance Structures & Governance Responsibility Assignment Matrix (<i>Case</i>) • Governance at Project Level (<i>Facilitated Workshop ~ Job based Scenarios</i>)
Day 2	0900 - 1300	DAY 2 ~ Risk Management Challenges, Reviews & Approvals <ul style="list-style-type: none"> • Risk Management versus Risk Governance (<i>Critique</i>) • Risk Appetite & Stakeholders revised Risk Tolerance (<i>Class Activity</i>) • Risk Management Plan (RMP) & Risk Matrix (RM) Color Coding (<i>Case</i>) • RMP Development (<i>Workshop</i>)
	1300 - 1400	Lunch
	1400 - 1700	<ul style="list-style-type: none"> • Risk Identification (<i>Workshop</i>) • Risk Review: Qualitative versus Quantitative Risk Analyses (<i>MC Interpretation</i>) • Risk Register Approval & Deployment (<i>Artifact Development</i>)
Day 3	0900 - 1300	DAY 3 ~ Contract Strategy & Procurement Management <ul style="list-style-type: none"> • Business Strategy triggered Contracts Types • Procurement Management specific Contracts (<i>Artifacts Illustration</i>) • Risk Management based Contractual Decision-making (<i>Class Activity</i>) • Contract Selection Criteria Evolution (<i>Workshop</i>)
	1300 - 1400	Lunch
	1400 - 1700	<ul style="list-style-type: none"> • Statement Of Work (SOW), Project SOW & Procurement SOW (<i>Critique</i>) • Bidders Conference Dynamics (<i>Class Activity</i>) • Contract Change/Termination Management (<i>Artifacts Illustration</i>)
Day 4	0900 - 1300	DAY 4 ~ Stakeholder, MIS & Interface Management <ul style="list-style-type: none"> • Stakeholder Engagement Management • Stakeholder Analyses at Portfolio, Program & Project Levels (<i>Class Activity</i>) • Stakeholder Register & Interface Management (<i>Artifacts Illustration</i>) • Communication Management Analysis & Calculation (<i>Workshop</i>)
	1300 - 1400	Lunch
	1400 - 1700	<ul style="list-style-type: none"> • IT to IS ~ Paradigm Shift (<i>Critique</i>) • Re-configuring MIS in line with Business Analysis Protocols (<i>Business Case Scenario</i>) • Project Management Information System (<i>PMIS Simulation Illustration</i>)
Day 5	0900 - 1300	DAY 5 ~ Engineering & Technology Management <ul style="list-style-type: none"> • Engineering Management Critical Success Factors • Engineering Design Challenges ~ Strategic Enablers (<i>Artifacts Illustration</i>) • New Product Development ~ Carbon Numbers (<i>Documentary based Discussion</i>) • Pneumatics to Electronics to Artificial Intelligence (<i>Case: Petrochemical integrating Petroleum Industry ~ PLC to SCADA to TMR to AI</i>)
	1300 - 1400	Lunch

	1400 - 1700	<ul style="list-style-type: none"> Integrating Engineering Design with Technology (<i>Standards Illustration</i>) Business-Engineering Integration (<i>RS-SQL: Overlapping Business & Engineering Paradigms</i>) Counting SLC Project for QC & Risk Management (<i>Case Study</i>)
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Training Dynamics (*Day wise*):



Introduction of lecturer (submission of curriculum vitae required): Attached

<첨부2> 강사 이력서



M. SALMAN BILAL

PE[®], PfMP[®], PgMP[®], PMP[®], PMI-PBA[®], PMI-ACP[®], PMI-RMP[®], PMI-SP[®], CAPM[®], ASQ CSSGB[®]

Mr. Bilal has more than 16 years of diversified project management experience. He is one of the only four Project Management Professionals in the world with all eight (8) PMI[®]-USA credentials and the youngest to possess such an outstanding status. Accredited Portfolio Manager (PfMP[®]), Program Manager (PgMP[®]), Project Manager (PMP[®]), Risk Manager (PMI-RMP[®]), Scheduling Professional (PMI-SP[®]), Agile Practitioner (PMI-ACP[®]), & Professional Business Analyst (PMI-PBA[®]) along with ASQ[®]-USA credential of Six Sigma (ASQ-CSSGB[®]).

Being registered Professional Engineer (PE[®]) Mr. Bilal has proven experience in high end Petroleum, Petrochemical, Automation & Manufacturing Industries. He has worked with Schlumberger Oil Field Services International in France, Saudi Arabia, Malaysia, Qatar and Pakistan and with Engro Chemicals Ltd. (Formerly Exxon, USA) in capacity of Instrumentation & Control Engineer and Six Sigma Project Manager. He has been involved in offshore and onshore well-testing projects for Well Completion & Productivity while providing engineering management services to various companies including RasGas, Saudi Aramco, Shell, Petronas, ENI, OGDCL, PPL, OMV, BP and DPL.

In addition to his many years of practical experience, Mr. Bilal is a Ph.D. Scholar conducting Engineering Management doctoral researches (Project Risk Management for Agile Operations). He is also a SME Reviewer for PMI[®] USA Global Standard on Requirements Management (2016). He has served as Assistant Professor of Electrical Engineering and now serving as Assistant Professor of Operations Management. He is a Resource Person/Faculty for Executive Education at FCC University and is Module Director for Business Strategy, Quantitative Methods, Management Information System, and Operations Management. He has been part of core team who initiated MS/M Phil Project Management Degrees in one public and two private Universities having international campuses. Being Business Analyst, he has successfully designed and conducted client specific Diplomas in Business Management (DBM) for Engro Foods and Honda Cars. Presently, he is Program Director for Honda-DBM in addition to managing Post Graduate Studies Programs (MBA, Executive MBA) at School of Management of US management led FCC-University.

Mr. Bilal is Principal Consultant/Founder of MSB Training Consultancy; Mentoring PMI[®] USA credentials/certifications and conducted hundreds of training workshops. More than 1,000 project management professionals have successfully achieved PMI[®] USA certifications under his guidance and mentorship. He is also Training Consultant for multinationals including TOTAL[®], OMV[®], Wateen[®], FFC[®], Engro[®] and Etisalat run PTCL[®]. He's Resource Person for Centre of Learning & Training (CLT), Government Engineering Academy (GEA), and Ministry of Planning & Development (P&D) of Pakistan.

Over his career, Mr. Bilal has received more than two dozen recognitions, including gold and silver medals, of performance.

EDUCATION

- B.Sc Electrical Engineering (Specialization in Communication & Electronics)
- M.Sc Electrical Engineering (Dual Majors in Power Electronics & Control System Engineering)
- M.Sc Engineering Management (Project Risk Management)
- Ph.D Engineering Management (Research Phase: Risk Matrix & Agile Project Management)

PORTFOLIO OF COURSES – PMI[®] USA Global R.E.P. (Registered Education Provider)

Created/Configured Professional Development Units (Acknowledgeable by PMI[®] USA)

- Project Management: PMP[®]: 35 PDU
- Project Risk Management: PMI-RMP[®]: 30 PDU
- Program Management Professional: PgMP[®]: 35 PDU
- Agile Project Management: PMI-ACP[®]: 24 PDU

SERVICE TO ACADEMIA (Visiting Faculty to various Universities)

- MS/M. Phil Project Management: Risk Management Dynamics, Project Quality Management
- MBA/Executive MBA: Supply Chain Risk Management, Business Strategy, Management Information System
- BS (Honors) Operations Majors: Productivity Management, Operations Excellence