

COURSE OVERVIEW CM0183 Engineering Procurement & Construction (EPC) Contracts for Energy Industry

Course Title

Engineering Procurement & Construction (EPC) Contracts for Energy Industry

Course Date/Venue

June 30-July 04, 2025/Al Maya Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference CM0183

Course Duration/Credits

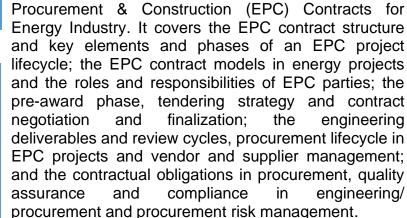
Five days/3.0 CEUs/30 PDHs

Course Description



highly-interactive This practical and includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Engineering





Further, the course will also discuss the construction planning and mobilization, scheduling and project controls and HSE and regulatory compliance in EPC projects; the subcontractor selection and contracts, coordination and daily work permits, site meetings and performance monitoring and delay and dispute management; the construction risk and insurance as well as site documentation and quality control; the change events, variation orders, time extensions and cost impacts and documentation protocols; and the types of delays, delay analysis methods, concurrent delays and EOT approval process.













During this interactive course, participants will learn the cost control and financial management through budgeting and cost forecasting, payment milestones and invoicing, cash flow and working capital and claims for escalation and reimbursement; the dispute avoidance and resolution and contract close-out and handovers; the FIDIC and other standard EPC forms; the risk allocation in EPC projects, performance bonds, guarantees and securities; the technology integration in EPC projects; and the low-carbon engineering choices, sustainable procurement practices, reporting frameworks and energy transition projects.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on engineering procurement and construction (EPC) contracts for energy industry
- Discuss EPC contract structure and key elements and phases of an EPC project lifecycle
- Illustrate EPC contract models in energy projects and explain the roles and responsibilities of EPC parties
- Apply pre-award phase and tendering strategy and contract negotiation and finalization
- Carryout engineering deliverables and review cycles, procurement lifecycle in EPC projects and vendor and supplier management
- Apply contractual obligations in procurement, quality assurance and compliance in engineering/procurement and procurement risk management
- Employ construction planning and mobilization, scheduling and project controls and HSE and regulatory compliance in EPC projects
- Carryout subcontractor selection and contracts, coordination and daily work permits, site meetings and performance monitoring and delay and dispute management
- Apply construction risk and insurance as well as site documentation and quality control
- Identify change events, variation orders, time extensions and cost impacts and documentation protocols
- Recognize the types of delays, delay analysis methods, concurrent delays and EOT approval process
- Implement cost control and financial management through budgeting and cost forecasting, payment milestones and invoicing, cash flow and working capital and claims for escalation and reimbursement
- Apply dispute avoidance and resolution and contract close-out and handovers and review FIDIC and other standard EPC forms
- Manage risk allocation in EPC projects, performance bonds, guarantees and securities and technology integration in EPC projects
- Discuss low-carbon engineering choices, sustainable procurement practices, reporting frameworks and energy transition projects























Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive "Haward Smart Training Kit" (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes electronic version of the course materials conveniently saved in a Tablet PC.

Who Should Attend

This course provides an overview of all significant aspects and considerations of engineering procurement and construction (EPC) contracts for energy industry for project managers and engineers, procurement and contract managers, legal and commercial advisors, construction managers and site engineers, finance and risk professionals, developers and owners, consultants and advisors, regulatory and compliance officers, project management consultant, operations and maintenance professionals and those who involved in planning, executing, managing, or overseeing EPC projects in the energy sector.

Training Methodology

All our Courses are including Hands-on Practical Sessions using equipment, Stateof-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Practical Workshops & Work Presentations

30% Hands-on Practical Exercises & Case Studies

20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK[®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning and afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

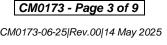
























Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's Certificates are accredited by the following international accreditation organizations:



British Accreditation Council (BAC)

Haward Technology is accredited by the British Accreditation Council for Independent Further and Higher Education as an International Centre. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the ANSI/IACET 2018-1 Standard which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET 2018-1 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award 3.0 CEUs (Continuing Education Units) or 30 PDHs (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.























Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Dimitry Rovas, CEng, MSc, PMI-PMP, is a Senior Contracts & Management Consultant with extensive industrial experience in Oil. Gas, Power and Utilities industries. His expertise includes Contract Contract Management, and Risk Management, Contract Management Procedure, Contract Management & Tendering, Contract Management Framework, Contract Risk Identification & **Contract Models** in Energy Projects. **Negotiation, Construction Planning & Mobilization, Construction**

Risk, Contracts Monitoring & Evaluation, Contract Terms & Conditions, Contract Terminations, Advanced Suppliers & Contractors Management, Contracts & Suppliers Risk Identification, Presentation Skills, Negotiation Skills, Interpersonal Skills, Communication Skills, Leadership & Change Management, Management, Collaboration Skills, Developing Effective Partnership, Developing & Development, Analytical Managing Budget. Technical Design & Troubleshooting Techniques, Interpersonal Skills, Leadership & Mentoring, Time Management, Performance Management, Strategic Planning & Analysis and Communication Reporting Skills, **Project** Management, Management, Project Management Planning & Control Techniques, Project Risk Management, Quality Management, Project Acceleration Techniques, Scope **Purchasing** Control Management, Asset Management, **Procurement** Management, Warehousing, Quality Management System (QMS) and Business Management. Further, he is also well-versed in Energy Conservation, Electricity Distribution Systems, Energy Saving, Combined Cycle Power Plant, Gas & Steam Turbines, Heat Transfer, Machine Design, Fluid Mechanics, Heating & Cooling Systems, Heat Insulation Systems and Heat Exchanger & Cooling Towers. He was the Project Manager wherein he was managing, directing and controlling all activities and functions associated with the domestic heating/cooling facilities projects.

During his life career, Mr. Rovas has gained his practical and field experience through his various significant positions and dedication as the EPC Project Manager, Field Engineer, Preventive Maintenance Engineer, Researcher, Instructor/Trainer, Telecom Consultant and Consultant from various companies such as the Podaras Engineering Studies, Metka and Diadikasia, S.A., Hellenic Petroleum Oil Refinery and COSMOTE.

Mr. Rovas is a **Chartered Engineer** of the **Technical Chamber** of **Greece**. Further, he has Master degrees in Mechanical Engineering and Energy Production & Management from the National Technical University of Athens. Moreover, he is a Certified Instructor/Trainer, a Certified Project Management Professional (PMP), a Certified Internal Verifier/Assessor/Trainer by the Institute of Leadership & Management (ILM) and a Certified Six Sigma Black Belt. He is an active member of Project Management Institute (PMI), Technical Chamber of Greece and Body of Certified Energy Auditors and has further delivered numerous trainings, seminars, courses, workshops and conferences internationally.























Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1. Monday 30th of June 2025

Day 1:	Monday, 30 th of June 2025
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	EPC Contract Structure & Key Elements Definition and Scope of EPC • Turnkey versus EPC versus EPCM • Fixed- Price and Lump-Sum Elements • Interface and Single-Point Responsibility
0930 - 0945	Break
0945 - 1030	Phases of an EPC Project Lifecycle Feasibility and Concept Stage • Front-End Engineering Design (FEED) • Detailed Engineering and Procurement • Construction, Commissioning and Handover
1030 – 1130	EPC Contract Models in Energy Projects Onshore versus Offshore Contracts • BOT, BOOT Models • Consortium and Joint Venture Arrangements • Role of IPPs in Renewable Energy EPCs
1130 - 1215	Roles & Responsibilities of EPC Parties Owner/Client Roles and Expectations • Contractor Obligations • Subcontractors and Vendors • Project Management Consultant (PMC) Role
1215 - 1230	Break
1230 - 1330	Pre-Award Phase & Tendering Strategy RFP Development and Bid Evaluation • Technical and Commercial Clarifications • Risk Allocation During Tendering • Pre-Bid Meetings and Site Visits
1330 – 1420	Contract Negotiation & Finalization Term Sheet versus Contract • Liquidated Damages Clauses • Change Management Terms • Force Majeure and Termination Clauses
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today & Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One

Day 2. Tuesday 01st of July 2025

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	Engineering Deliverables & Review Cycles
0730 - 0830	Design Packages and Approvals • Technical Interface Management • Value
	Engineering • 3D Modeling and Digital Twins
	Procurement Lifecycle in EPC Projects
0830 - 0930	Vendor Prequalification • RFQ and Bid Evaluations • Purchase Orders and
	Incoterms • Logistics and Expediting
0930 - 0945	Break
	Vendor & Supplier Management
0945 - 1100	Long-Lead Items Tracking • Criticality and Inspection Classification • FATs
	and Supplier Audits • Vendor Document Management
	Contractual Obligations in Procurement
1100 - 1215	Subcontractor Flow-Down Clauses • Warranties and Guarantees • Delivery
	Obligations and Delay Penalties • Claims Related to Procurement























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1215 - 1230	Break
1230 – 1330	Quality Assurance & Compliance in Engineering/Procurement
	QA/QC Planning and Documentation • ITPs and Hold Points • Certification
	Requirements (ASME, API, IEC, etc.) • Interface with Regulatory Authorities
1330 – 1420	Procurement Risk Management
	Currency and Price Volatility • Geopolitical and Supply Chain Risks •
	Insurance Requirements (Marine, Cargo, Transit) • Procurement-Related
	Claims and Remedies
1420 – 1430	Recap
	Using this Course Overview, the Instructor(s) will Brief Participants about the
	Topics that were Discussed Today & Advise Them of the Topics to be Discussed
	Tomorrow
1430	Lunch & End of Day Two

Day 3. Wednesday 02nd of July 2025

Day 3:	Wednesday, 02 nd of July 2025
0730 - 0830	Construction Planning & Mobilization
	Mobilization Plans and Site Setup • Construction Methodologies • Labour,
	Plant, and Equipment Planning • Interface with Engineering and Procurement
	Scheduling & Project Controls
0830 - 0930	CPM Scheduling in Primavera/MS Project • Progress Measurement
	Techniques • Earned Value Analysis • Recovery and Mitigation Plans
0930 - 0945	Break
	HSE & Regulatory Compliance in EPC Projects
0945 - 1100	Safety Programs and Audits • Permit-to-Work Systems • Environmental
	Compliance • Site Emergency Response Planning
	Subcontractor Management
1100 – 1215	Subcontractor Selection and Contracts • Coordination and Daily Work Permits
1100 - 1215	• Site Meetings and Performance Monitoring • Delay and Dispute
	Management
1215 – 1230	Break
	Construction Risk & Insurance
1230 - 1330	Construction All-Risk (CAR) Policies • Third-Party Liabilities • Delay in
	Start-Up (DSU) Insurance • Site-Specific Risk Registers
	Site Documentation & Quality Control
1330 - 1420	Daily Site Reports • Welding Inspection and NDT • Site Queries (SQs), NCRs
	and Punch Lists • As-Built Documentation
1420 – 1430	Recap
	Using this Course Overview, the Instructor(s) will Brief Participants about the
	Topics that were Discussed Today & Advise Them of the Topics to be Discussed
	Tomorrow
1430	Lunch & End of Day Three

Day 4: Thursday, 03rd of July 2025

Day 4.	Thursday, 05 Or July 2025
	Contractual Change Management
0730 - 0830	Identifying Change Events • Variation Orders • Time Extensions and Cost
	Impacts • Documentation Protocols
	Delay Analysis & EOT Claims
0830 - 0930	Types of Delays (Critical versus Non-Critical) • Delay Analysis Methods
	(AACE, SCL Protocols) • Concurrent Delays • EOT Approval Process
0930 - 0945	Break
	Cost Control & Financial Management
0945 - 1100	Budgeting and Cost Forecasting • Payment Milestones and Invoicing • Cash
	Flow and Working Capital • Claims for Escalation and Reimbursement























	Dispute Avoidance & Resolution
1100 – 1215	Escalation Protocols • Dispute Resolution Boards (DRBs) • Mediation,
	Arbitration, and Litigation • Case Studies of Major EPC Disputes
1215 - 1230	Break
1230 – 1330	Contract Close-Out & Handovers
	Completion and Takeover Procedures • Final Dossiers and O&M Manuals •
	Performance Testing and Warranties • Lessons Learned and Close-Out Reports
1330 – 1420	FIDIC & Other Standard EPC Forms
	FIDIC Silver Book Key Clauses • NEC and ICE Models • Customized
	Contracts in Energy Projects • Comparative Analysis of Contract Standards
1420 – 1430	Recap
	Using this Course Overview, the Instructor(s) will Brief Participants about the
	Topics that were Discussed Today & Advise Them of the Topics to be Discussed
	Tomorrow
1430	Lunch & End of Day Four

Day 5:	Friday, 04 th of July 2025
	Risk Allocation in EPC Projects
0730 - 0845	Risk-Sharing Mechanisms • Risk Registers and Contingency Planning •
	Transfer versus Retention of Risk • Contractual Tools to Mitigate Risk
	Performance Bonds, Guarantees & Securities
0845 - 1000	Bank Guarantees (Advance Payment, Performance) • Retention Bonds •
	Parent Company Guarantees • Surety and Insurance-Backed Securities
1000 - 1015	Break
	Technology Integration in EPC Projects
1015 - 1130	Digital Project Management Tools • BIM, Drone, and AI Applications •
	Document Control Systems • Digital Twins for O&M Readiness
	Sustainability & ESG in EPC Projects
1130 - 1230	Low-Carbon Engineering Choices • Sustainable Procurement Practices •
1130 - 1230	Reporting Frameworks (GRI, SASB, etc.) • Energy Transition Projects
	(Hydrogen, Solar, CCS)
1230 - 1245	Break
	Case Studies of EPC Projects in the Energy Sector
1245 - 1315	LNG Terminals and Power Plants • Offshore Wind Farms • Combined Cycle
	Plants • Refinery Upgrades and Shutdowns
	Workshop: Contract Risk Identification & Mitigation
1315 - 1345	Risk-Based Contract Review Simulation • Stakeholder Mapping and Interface
	Risks • Drafting Key Clauses for Mitigation • Presentation of Group Solutions
	Course Conclusion
1345 - 1400	Using this Course Overview, the Instructor(s) will Brief Participants about to
	Topics that were Covered During the Course
1400 – 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course























Practical Sessions

This practical and highly-interactive course includes real-life case studies & exercises:-



Course Coordinator

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