

Project Engineer Development Program

by



No clients; only partners.

**Program Modules & Accreditation (In progress)*

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APMG International Accrediting Professionals



Richard Pharro
CEO

- Founded APMG in 1993. APMG International is a leading Examination Institute. Accrediting professional training and consulting organizations and managing certification schemes for knowledge-based workers




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The quality of the examinations we set and run, the quality of the training materials we produce and assess, and the quality of the checking done for every product with which we work, is always an essential element.

”

Andy Taylor

Lead Cyber Security Assessor at APMG International

 **APMG** International



Program modules under development:

1. Applied Project and Stakeholder Management
2. EPC Lifecycle Management and Site Management (Supervision, Inspection, MOC)
3. Cost Estimation, Budgeting, and Control
4. Leadership and Communication Skills
5. Procurement and Contract Management
6. Project Planning and Scheduling
7. Project Risk Management

How to Turn Your Technical Engineer into Project Engineer?

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Applied Project and Stakeholder Management

Module 1

Learning Outcomes

1. Understand and Practice Applying the Project Planning Framework.
2. Develop a Project Charter.
3. Identify and analyze project stakeholders.
4. Break down project deliverables into manageable items.
5. Estimate activities duration and develop project schedule.
6. Estimate costs and develop realistic budget.
7. Understand quality process to fulfill stakeholder requirements.
8. Map deliverable with project roles and set authorities.
9. Manage project risks comprehensively.
10. Develop Full Project Plan.

Full module details are found on the description sheet



EPC Lifecycle Management and Site Management

(Supervision, Inspection, MOC)

Module 2

Learning Outcomes

1. Know how to define and manage an EPC project
2. Understand the importance and the main functions of engineering, procurement and construction phases
3. Understand the issues that must be addressed to become more effective in timely and cost effective delivery of projects
4. Draft clear and effective contracts to identify and mitigate risk and liabilities
5. Understand EPC and other project specific contracts to identify assignable causes for the successes and failures of EPC contracts
6. Review Performance Measures to understand the process for score carding and develop the basis for establishing the KPI
7. Understand the processes and the techniques of site management for engineering projects

Full module details are found on the description sheet



Cost Estimation, Budgeting, and Control

Module 3

Learning Outcomes

1. Learn about the modern methods and techniques of cost estimating.
2. Understand the requirements for the different stages of the project preconstruction phases and how to comply with developing estimates for different project stakeholders (owners, consultants, contractors).
3. Understand the level of detail and information needed to be able to monitor and develop metrics against your initial estimates and project programmes during the project execution.
4. Learn for what indices and what warnings to look for during the execution to avoid cost overruns and to deliver projects on budget and on time.

Full module details are found on the description sheet



Leadership and Communication Skills

Learning Outcomes

1. Identify and Understand own leadership practices.
2. Understand Strategy & Alignment in Execution.
3. Develop approach to optimize strengths and overcome weaknesses
4. Gain knowledge and ability to apply the 70-20-10 approach.
5. Improve Goal-Setting through activities
6. Assess situation for timely ethical decisions
7. Apply models of coaching.
8. Develop Leadership Plan Development.
9. Develop a high-level change management plan for an organizational change.

Full module details are found on the description sheet

Module 4



Procurement and Contract Management

Learning Outcomes

1. Learn more about project interfaces.
2. Pre-Commissioning, Commissioning and Start-up.
3. Plan for contract management.
4. Select and evaluate potential sellers
5. Negotiate and finalize the contract
6. Monitor contractor performance and resolve problems.
7. Identify and address delays in performance
8. Modify contracts and exercise options.
9. Select and pursue a formal contract remedy and recognize fraud.

Full module details are found on the description sheet

Module 5

Project Planning and Scheduling

Learning Outcomes

1. Ability to develop a project schedule.
2. Construct project WBS and activity network diagrams to identify the sequence of work.
3. Develop schedules and compress them using a variety of methods.
4. Effectively assign resources and cost to build a realistic baseline schedule.
5. Perform schedule analysis and recommend corrective actions to keep the project on track.
6. Build readable and reliable project reports to keep stakeholders informed on progress.

Full module details are found on the description sheet

Project Risk Management

Module 7

Learning Outcomes

1. Understand what are risks and key risk management concepts.
2. Know how to identify, analyze and plan for risk responses.
3. Utilize various quantitative and qualitative tools and techniques for risk analysis.
4. Monitor and report risks and their status.

Full module details are found on the description sheet

