APM PFQ Learning outcomes

Attribute Group	Attribute	Ceng	Ieng	1. Understand project management and the operating environment	2. Understand project Life Cycles	3. Understand the roles and responsibilities within a project	4. Understand project management planning	5. Understand project scope management	6. Understand resource, scheduling and optimisation in a project	7. Understand project risk and issues management in the context of a project	8. Understand quality in the context of a project	9. Understand communication in the context of a project	10. Understand leadership and teamwork within a project
1. Understanding and Practical Application of Engineering	Maintain and extend knowledge of engineering theory and practice, and how technology assists its application	Yes	Yes										
	Solve engineering problems using a sound theoretical approach, based on evidence, and contribute to continuous improvement	Yes	Yes										
	Engage in the creation and/or introduction of new, advancing or improved techniques and technology	Yes											
	Identify, review and select techniques, procedures and methods to undertake engineering tasks	Yes	Yes										
	Take an active role in the identification and definition of requirements, challenges, risks, and opportunities and undertake appropriate investigation and action	Yes								Orange			
	Contribute to the design and development of engineering solutions, implement those solutions, and evaluate their effectiveness in the context of the whole project life cycle	Yes	Yes		Orange								
	Undertake the design, development and implementation of engineering solutions and evaluate their effectiveness in the context of the whole project life cycle	Yes			Orange								
	Exercise sound independent engineering judgement	Yes	Yes										
2. Management and Leadership	Plan the work and resources needed to enable effective implementation of engineering tasks and projects	Yes	Yes				Green	Orange					
	Manage the planning and organisation of tasks and resources.	Yes	Yes				Green	Orange	Green				
	Manage (organise, direct and control), programme or schedule, tasks and resources	Yes					Orange		Green				
	Manage teams or technical specialisms	Yes	Yes									Orange	
	Lead or influence teams / technical specialisms, understanding the limits of their skills and knowledge	Yes										Orange	Green
	Assist others to meet changing technical and managerial needs	Yes	Yes										Orange
	Develop others to meet changing technical and managerial needs	Yes											Orange
	Manage quality processes and contribute to quality improvements	Yes	Yes								Green		
	Demonstrate continuous quality improvement and promote best practice	Yes									Orange		
3. Commercial Ability	Manage, prepare and control costs/budgets of engineering tasks or projects	Yes	Yes				Green						
	Manage, prepare and control costs/budgets of a significant engineering task or project	Yes					Orange						
	Use sound knowledge of statutory and commercial frameworks within their own area of responsibility and have an appreciation of other commercial arrangements	Yes	Yes										
	Demonstrate sound judgement on statutory, contractual and commercial issues in relation to own area of responsibility	Yes											
4. Health, Safety and Welfare	Demonstrate a sound knowledge of legislation, hazards and safe systems of work	Yes	Yes										
	Manage risks	Yes	Yes							Green			
	Manage health, safety and welfare within their own area of responsibility	Yes	Yes										
	Contribute to improvements in health, safety and welfare	Yes	Yes										
	Demonstrate leadership by promoting good practice and improvements in health, safety and welfare	Yes											Orange
5. Sustainable Development	Understand the principles of sustainable development and apply them in work	Yes	Yes										
	Manage engineering activities that contribute to sustainable development and the United Nations' Sustainable Development Goals (UNSDGs)	Yes	Yes										
	Take a professional and responsible role in improvements that support sustainable development and reduce resource demand, set in the context of a whole project life cycle	Yes											
6. Interpersonal Skills and Communication	Communicate well with others at all levels including effective use of English*, orally and in writing	Yes	Yes									Green	
	Discuss ideas and plans competently and with confidence	Yes	Yes				Orange					Orange	
	Communicate new concepts and ideas to technical and non-technical stakeholders	Yes										Green	
	Demonstrate effective personal and social skills	Yes	Yes										Orange
	Demonstrate awareness of diversity and inclusion	Yes	Yes									Orange	Orange
	Proactively manage diversity and inclusion	Yes											
7. Professional Commitment	Understand and comply with the ICE Code of Conduct	Yes	Yes										
	Understand the ethical issues that may arise in their role and carry out their responsibilities in an ethical manner	Yes	Yes										
	Plan, carry out and record Continuing Professional Development (CPD) necessary to maintain and enhance competence in their own area of practice	Yes	Yes										
	Identify the limits of their personal knowledge and skills	Yes	Yes										
	Exercise sound holistic independent judgement and accept responsibility	Yes											
	Engage with ICE activities	Yes	Yes										

Green — Well covered
Orange — Moderately covered