

HKIE Revised Competence Standards for Associate Membership

Area I: Applying Engineering Knowledge

Standard statement (S1): Comprehend and apply knowledge embodied in widely accepted and applied procedures, processes, systems or methodologies, including those specific to Hong Kong, as well as maintain currency of engineering knowledge, skills and emerging technologies

Indicators:

- (a) possess engineering knowledge that provides bodies of knowledge for the accepted practice areas in an engineering discipline, and understand new engineering technology, and put into practice
- (b) seek advice, where necessary, to supplement own knowledge and experience
- (c) demonstrate awareness of and address appropriately the Discipline-specific engineering requirements as well as the related legal requirements and regulatory issues in Hong Kong by following the established procedures in routine work
- (d) demonstrate a commitment to extending and developing engineering knowledge and skills by participating in education, training, mentoring or other programmes contributing to his/her development and engaging in collaborative activities to understand the new development of the engineering field

Area II: Formulating Technical Solutions

Standard statement (S2): Identify, clarify, analyse and solve broadly-defined engineering problems in accordance with good practice for engineering, and exercise sound judgement in the course of broadly-defined engineering activities

Indicators:

- (a) identify and understand the scope of the problem
- (b) support the formulation of systematic, theory-based engineering fundamentals, and collate information to substantiate possible conclusions using the support of computing and information technologies where applicable
- (c) identify needs, requirements, constraints and performance criteria
- (d) identify, design and develop possible solutions based on engineering principles, existing constraints and appropriate technologies and with consideration of different perspectives and engagement of stakeholders
- (e) evaluate the pros and cons of the possible solutions and recommend the most appropriate solution for decision with sound engineering judgement recognised by peers
- (f) plan and implement the solutions with reference to the established practice

Area III: Managing Engineering Work

Standard statement (S3): Manage part or all of one or more broadly-defined engineering activities with technical including risk assessment, cultural and sustainability considerations, and be responsible for making recommendations and/or decisions for such activities

Indicators:

- (a) support scheduling and organising projects to deliver specified outcomes
- (b) manage resources, including financial and physical resources of specific engineering activities
- (c) locate hazards and apportion frequency of occurrence, act appropriately and assist in managing engineering risk in work and operation in accordance with the corresponding policies, procedures and protocols
- (d) follow the quality assurance procedures to manage engineering activities
- (e) act appropriately, take responsibilities and support the decision-making process during the course and/or for the outcome of engineering activities undertaken

Area IV: Contributing to Sustainability

Standard statement (S4): Recognise the reasonably foreseeable economic, social, cultural, health, safety, sustainability and environmental effects of broadly-defined engineering activities generally

Indicator:

- (a) consider and take into account the impact of engineering activities on the economy, society, culture, health, safety, sustainability and environment with reference to the United Nations Sustainable Development Goals (UNSDG) to avoid putting the public at risk

Area V: Upkeeping Professional Acumen

Standard statement (S5): Conduct engineering activities to an ethical standard and communicate and collaborate clearly and inclusively on broadly-defined engineering activities with members of an engineering team and a broad range of stakeholders

Indicators:

- (a) demonstrate understanding of the HKIE Rules of Conduct and act appropriately in accordance with the HKIE Rules of Conduct (including demonstrating an awareness of limits of capability; acting with integrity and honesty and demonstrating self-management)
- (b) use oral and written communication to convey clear message to team members that meet their needs and expectations
- (c) communicate using active listening skills and/or a range of media suitable to the team members and context
- (d) treat people with respect and develop empathy when communicating with others
- (e) operate and collaborate effectively with team members

The Hong Kong Institution of Engineers

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