

**Formal Training Scheme to Associate Membership
CORE OBJECTIVES (CVL)**

1. Civil Engineering Fundamentals & Engineering Design	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p><u>Civil Engineering Procedures</u></p> <p>1.1 Have a good understanding of Core Civil Engineering Principles and Civil Engineering Procedures</p> <p><u>Defining A Problem</u></p> <p>1.2 Have ability to identify and define a problem accurately</p> <p>(Ability to define client requirement and to identify external restraints. The trainee should be able to conduct the analysis to evaluate possible solutions to problems.)</p>	K				
	C				

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2. Engineering Solution	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p><u>Applying Standards</u></p> <p>2.1 Know the application and limitations of local and international Standards, Codes of Practice, Technical Memoranda etc.</p> <p><u>Designing A Solution</u></p> <p>2.2 Have ability to produce a possible solution to a problem</p> <p>(The trainee should demonstrate how he contributes to the solution of the problem and identify the major factors on which the solution depends for accuracy or completeness.)</p> <p><u>Drawing</u></p> <p>2.3 Have ability to use appropriate software to produce a design drawing and calculation for the problem</p> <p>2.4 Present the solution to a problem (Produce documentation on the solution containing diagrams, sketches, charts etc.)</p>	K				
	E				
	C				
	E				

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2. Engineering Solution	Code	ES Initials & Date of Assessment			
		G	K	E	C
<p><u>Environment Issue</u></p> <p>2.5 Appreciate the way a report on environmental issues is used in arriving at an engineering solution</p> <p>Understand the environmental protection issues and relevance of an environmental assessment report as it affects the solution of a problem within your organisation.</p>	K				
<p><u>Specifications</u></p> <p>2.6 Appreciate the way in which technical specifications form an essential part of the solution of a problem</p> <p>(Write a specification and/or amend and/or review an existing specification for a particular item of work.)</p>	C				
<p><u>Project Costing</u></p> <p>2.7 Have experience of costing the solutions to problems by taking off quantities and building up cost estimates</p>	E				
<p><u>Safety In Design</u></p> <p>2.8 Know the requirements for safety in problem solving by being familiar with the regulations applying to your work</p>	K				

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3. Implementation Process	Code	ES initials and Date of Assessment			
		G	K	E	C
<p><u>The Contract & Its Operation</u></p> <p>3.1 Know how all parties to a contract exercise their duties and responsibilities by appreciating the practical application of the various documents forming a particular contract</p> <p>3.2 Be able to keep accurate daily record of events and instructions</p> <p><u>Site Experience</u></p> <p>3.3 Site Inspection (visual inspection and or with simple site test) to understand the acceptance of the final product</p> <p><u>Setting Out</u></p> <p>3.4 Participate in the dimensional control and accuracy of the work you are implementing</p> <p>3.5 Know the principle and application of engineering survey</p> <p><u>Methods and Plant</u></p> <p>3.6 Know the use, performance, cost and/or resource of equipment and/or plant used in implementing a solution</p> <p><u>Planning and Programming of a Works Task</u></p> <p>3.7 Be able to plan and programme a section of work and involved in progress monitoring and reporting</p>	<p>K</p> <p>C</p> <p>C</p> <p>C</p> <p>E</p> <p>E</p> <p>E</p>				

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3. Implementation Process	Code	ES Initials & Date of Assessment			
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<p><u>Measurement</u></p> <p>3.8 Be able to measure and record or independently check work done for payment purposes</p>	E				
<p><u>Safety At Work</u></p> <p>3.9 Have a critical approach to safety matters in the implementation process and to the observance of safe working practices</p>	E				
<p><u>Quality Control and Quality Assurance</u></p> <p>3.10 Gain experience in the use of quality assurance tools and procedures in construction</p>	C				
<p><u>Environmental Management</u></p> <p>3.11 Develop, implement, audit environmental plan and waste management plan for energy saving, conservation or minimising environmental nuisance</p>	*K/E				
<i>* As Appropriate to the Company</i>					

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4. Technology in Specialised Area	Code	ES Initials & Date of Assessment			
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<p><u>Technology in specialised area</u></p> <p>(optional: Trainee should have in depth experience of technology application in either 4.1 or 4.2 with respect to one of the streams listed below or 4.3)</p> <p>4.1 Design Activities</p> <p>OR</p> <p>4.2 Construction Activities</p> <p>List of streams (select one)</p> <ul style="list-style-type: none"> • Earth and ground engineering works • Building or Structural works • Marine engineering works • Roads and drainage works • Water Supply works • Municipal works • Others as employer proposed subject to HKIE to approve <p>OR</p> <p>4.3 Project Management (Trainee should have experience of the following in respect of project management)</p> <ul style="list-style-type: none"> • Design • Preparation of specification • Selection of materials • Tendering • Budget planning • Works programme preparation • Progress monitoring • Legal and contractual aspect of the project • Management skill 	E				
	E				
	E				