

CORE OBJECTIVES (CVL)

1. Civil Engineering Fundamentals & Engineering Design	Code	ES Initials & Date of Assessment			
		G	K	E	C
<u>Civil Engineering Procedures</u>					
1.1 Have a general understanding of overall Civil engineering procedures	K				
<u>Defining A Problem</u>					
1.2 Have experience in identifying and defining a problem accurately	E				
<p>Take an active part, probably in a supporting role, in researching, assembling and assessing basic data.</p> <p>Record involvement in your Quarterly Log Book Reports and demonstrate the thought/analytical process by which the problem was finally defined.</p>					
<u>Alternative Solutions</u>					
1.3 Gain practical experience in the identification and evaluation of alternative solutions to a problem	C				
<p>Assist in the technical and financial evaluation of alternatives by, for example, assisting with a feasibility study covering such aspects as:</p> <ul style="list-style-type: none"> - Concepts and precedents; - Sources of information; - Estimates and budget quotations; - Quick design methods; - Writing, production and interpretation of feasibility reports; - Briefs for detailed design. 					

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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>List the documents you have used.</p>	E				
<p><u>Designing A Solution</u></p> <p>2.2 Produce the solution to a problem</p> <p>Draw together all the relevant data and analytical work under 1.1, 1.2, 1.3 and 2.1 appropriate to your sector of the industry.</p> <p>Produce your preferred solution with justification for assessment by your Engineering Supervisor showing throughout, or by an accompanying statement, how this work contributes to the solution of the problem and identify the major factors on which the solution depends for accuracy or completeness.</p>	C				
<p><u>Drawing</u></p> <p>2.3 Present the solution to a problem</p> <p>Produce documentation on the solution containing diagrams, sketches, charts etc.</p> <p>AND/OR</p> <p>Produce general arrangement and detailed drawings using scales and drawing sizes appropriate to the information to be conveyed.</p>	C				

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3. Implementation Process	Code	ES initials and Date of Assessment			
		G	K	E	C
<u>The Contract & Its Operation</u>					
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	*E/K				
3.2 Know the procedure for the issue and/or receipt, registration and filing of work instructions and/or drawings and amendments	E				
3.3 Be able to keep accurate daily record of events and instructions	C				
3.4 Read and co-ordinate drawings and/or implement work instructions by being involved on a 'day-to-day' basis in this process	C				
<u>Setting Out</u>					
3.5 Participate in the dimensional control and accuracy of the work you are implementing	C				
<u>Methods and Plant</u>					
3.6 Know the use, performance and cost of equipment and/or plant used in implementing a solution Include in your Quarterly Log Book Reports all major items of which you have first hand knowledge.	*E/K				
<u>Planning and Programming</u>					
3.7 Be able to plan, programme and progress work by programming a section of work and being involved in progress monitoring and reporting	C				
<u>Measurement</u>					
3.8 Be able to measure and record or independently check work done for payment purposes Take part in this work for the preparation or checking of interim valuations and/or Final Accounts.	C				
* As appropriate to the company					

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3. Implementation Process	Code	ES Initials & Date of Assessment			
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<u>Safety At Work</u> (see also Common Core 1.5)					
3.9 Have a critical approach to safety matters in the implementation process and to the observance of safe working practices	C				
<u>Quality Control and Quality Assurance</u>					
3.10 Gain experience in the use of quality assurance tools and procedures in construction	E				