



CICES PROJECT CONTROLS CIVIL ENGINEERING SURVEYOR (CES) CORE COMPETENCIES MARCH 2025

CIVIL ENGINEERING SURVEYOR (CES) CORE COMPETENCIES – Project Controls – 2025

The Project Controls CES competencies are split into core and specialist competencies.

OPTIMUM STANDARDS

Each of the activities under the competencies must be signed off to a specific standard, indicated by one of the letters A, K, E or B. The definitions of these are given below.

A	Appreciation	A general awareness of the activity is required. This could be acquired by reading a magazine article or attending a CPD event.
K	Knowledge	This standard requires a more detailed level of knowledge understanding of the activity. This could be acquired by undertaking a training course or other type of study but not necessarily put into practice e.g. a subject area on a degree course.
E	Experience	To reach this standard the activity must have been performed independently or under supervision. This may be achieved by undertaking the activity in a work context over a period of time. Experience of the activity or subject should follow on and be additional to appreciation and knowledge in that subject area.
B	Ability	To be able, without supervision, to perform relevant functions and be able to supervise other less experienced staff. This may be evidenced by the undertaking of management roles or experience gained over time.



CM Core 01 - Project Controls	Competency		Financial and Commercial processes in Civil Engineering							
Item	Optimum		Activity Detail	Date of Assessment						
	Technical	Member		A	K	E	B			
A	K	E	Management of budgets for civil engineering works. Cost forecasting, management and control processes including the use of contract programmes, change and risk registers.							
B	K	E	Profitability forecasts, cost/budget/value comparisons and cash flow.							
C	K	K	Value engineering techniques and their importance in achieving cost effective and safe design, construction and maintenance solutions, including transfer or acceptance of risk, design and performance obligations as a result.							
D	K	E	Design, adaption and continual improvement of processes, procedures, and tools to enable the monitoring and management of key commercial drivers e.g., change, cost, risk, certification etc. including a facility to check and audit.							

Name of Supervisor:	Name of Applicant:
Supervisor's Signature:	Date:



CM Core 02 - Project Controls	Competency		Commercial management and contract administration on civil engineering projects							
Item	Optimum		Activity Detail	Date of Assessment						
	Technical	Member		A	K	E	B			
A	K	K	Supply chain procurement including selection of appropriate forms of contract and management.							
B	K	K	Administration of contracts and / or subcontracts including payment mechanisms and resolution of contentious issues, final accounts agreement and management.							
C	K	E	The principles of insurance and liability. The common types of insurance available for usage on civil engineering projects, including professional indemnity insurance and warranties.							
D	K	E	Identification, recording, notification and negotiation of change in accordance with the contract. Evaluation of change through analysis of rates or compensation methods, and agreement of the effects of change.							
E	K	K	Employment legislation and its applicability to civil engineering works (e.g., Working Rule Agreement).							

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Supervisor's Signature:	Date:



CM Core 03 - Project Controls	Competency		Contract structure, documentation and the bid process in civil engineering						
Item	Optimum		Activity Detail	Date of Assessment					
	Technical	Member		A	K	E	B		
A	K	E	Standard forms of contract, contract selection, how they deal with key provisions including the rights and obligations of the Parties.						
B	K	E	Determination of the scope of work through interpretation of the contract documents – contract provisions, specifications, drawing, schedules, technical etc.						
C	K	E	The purposes of and differences between Preambles, Pricing Schedules, Bills of Quantities, Activity Schedules and Schedules of Rates.						
D	K	E	Risk and opportunities identification, analysis and management.						
E	K	E	The preparation and interpretation of estimates and tender submissions.						

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Supervisor's Signature:	Date:



CM Core 04 - Project Controls	Competency		The principles of contract law and their application within the context of civil engineering						
Item	Optimum		Activity Detail	Date of Assessment					
	Technical	Member		A	K	E	B		
A	A	K	Contract and other civil law principles applicable to the jurisdiction.						
B	A	K	Statute law relevant to civil engineering works.						
C	K	E	Advice on contractual matters and formulating contractual correspondence.						
D	K	K	Dispute avoidance and resolution – processes available and procedures that apply.						

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Supervisor's Signature:	Date:



CM Core 05 - Project Controls	Competency		Planning and programme in the management of civil engineering works						
Item	Optimum		Activity Detail	Date of Assessment					
	Technical	Member		A	K	E	B		
A	K	E	Various types of programmes used in civil engineering.						
B	K	E	Use of the programmes for planning and monitoring the works.						
C	K	E	Use of programmes for analysis and demonstration of delay and disruption and entitlement to extensions of time.						
D	K	E	Use of programmes to support budget and risk management on a project.						

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CM Core 06 - Project Controls	Competency		Techniques and technologies employed in civil engineering works							
Item	Optimum		Activity Detail	Date of Assessment						
	Technical	Member		A	K	E	B			
A	K	K	Techniques and technologies, their impact on sustainable, security minded and safe working practices with particular emphasis on stakeholder involvement in projects with which personally involved.							
B	K	K	The utilisation of labour, plant, equipment, materials and sub-contractors.							
C	K	K	Building Information Modelling (BIM) including the security implication of this and similar management tools.							
D	E	B	Apply structured information management practices to organise and maintain project performance and cost data							
E	K	E	Implement data architecture principles to support the integration and secure handling of project control systems and tools							

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Supervisor's Signature:	Date: