Rule 9
Eligibility for Civil Engineer, Certified

Approved by the CEC Board of Direction: 31 August 2026

Rule Applicability: Civil Engineer, Certified (CE-C) Credential

The Civil Engineer, Certified (CE-C) credential is a post P.E., general certification designed to validate essential professional competencies aligned with the Civil Engineering Body of Knowledge (CEBOK). It provides civil engineers with a structured pathway to demonstrate professional competency gained through on-the-job, mentored experience in addition to professional licensure.

Preamble for Certification:

The baseline requirements establish the minimum qualifications for application to the Civil Engineer, Certified (CE-C) credential. Certification signifies that an individual has demonstrated attainment of the knowledge, skills, and attitudes necessary for competent professional practice at the levels defined in the Civil Engineering Body of Knowledge (CEBOK3).

Eligibility Requirements for Civil Engineer, Certified (CE-C) Credential:

1. Undergraduate engineering degree or closely related field.
2. Professional Engineer (P.E.) license or approved international equivalent.
3. Submission and approval of a supervisor/mentor-verified CEBOK-outcome aligned Experience Checklist.
4. Passing the CE-C online written exam.
5. Adherence to ASCE Code of Ethics.

Please refer to the CEBOK Tables F-5 and F-6 below (from CEC Rule 3), as the levels indicated in white cells represent the levels needed for the levels of achievement for certification of the CE-C credential. These levels would typically be obtained through education, training, mentored experience, and examination.

The following two tables taken from the Civil Engineering BOK (version 3) represent levels of achievement in several outcomes. Those in white cells represent the levels needed for the professional practice of civil engineering (also referred to as “responsible charge”) as well as the typical pathways of achievement. The levels indicated in green cells represent the levels of achievement required for board certification. These levels would typically be obtained through experience or self-development.

Table F-5. The *Civil Engineering Body of Knowledge* Cognitive Domain Typical Pathway to Achievement.

Outcome	Cognitive Domain Level of Achievement					
	Level 1 Remember	Level 2 Comprehend	Level 3 Apply	Level 4 Analyze	Level 5 Synthesize	Level 6 Evaluate
Foundational Outcomes						
Mathematics	UG	UG	UG			
Natural Sciences	UG	UG	UG			
Social Sciences	UG	UG	UG			
Humanities	UG	UG	UG			
Engineering Fundamentals Outcomes						
Materials Science	UG	UG	UG			
Engineering Mechanics	UG	UG	UG			
Experimental Methods and Data Analysis	UG	UG	UG	PG	PG/E/ SD	E/SD
Critical Thinking and Problem Solving	UG	UG	UG	ME	ME	E/SD
Technical Outcomes						
Project Management	UG	UG	ME	E/SD	E/SD	
Engineering Economics	UG	UG	ME			
Risk and Uncertainty	UG	UG	UG	ME	E/SD	
Breadth in Civil Engineering Areas	UG	UG	UG	ME		
Design	UG	UG	UG	ME	ME	
Depth in a Civil Engineering Area	UG	UG	PG	PG	ME	E/SD
Sustainability	UG	UG	UG	ME		

Table F-5. (Continued)

Outcome	Cognitive Domain Level of Achievement					
	Level 1 Remember	Level 2 Comprehend	Level 3 Apply	Level 4 Analyze	Level 5 Synthesize	Level 6 Evaluate
Professional Outcomes						
Communication	UG	UG	UG	ME	ME	
Teamwork and Leadership	UG	UG	UG	ME	ME	E/SD
Lifelong Learning	UG	UG	UG	ME	ME	E/SD
Professional Attitudes	UG	UG	ME	ME		
Professional Responsibilities	UG	UG	ME	ME	ME	
Ethical Responsibilities	UG	UG	ME	ME	ME	E/SD

Table F-6. The *Civil Engineering Body of Knowledge* Affective Domain Typical Pathway to Achievement.

Outcome	Affective Domain Level of Achievement				
	Level 1 Receive	Level 2 Respond	Level 3 Value	Level 4 Organize	Level 5 Characterize
Technical Outcome					
Sustainability	UG	UG	ME	SD	
Professional Outcomes					
Communication	UG	UG	ME	SD	
Teamwork and Leadership	UG	UG	ME	SD	SD
Lifelong Learning	UG	UG	ME	SD	SD
Professional Attitudes	UG	UG	ME	SD	SD
Professional Responsibilities	UG	UG	ME	SD	
Ethical Responsibilities	UG	UG	ME	ME	SD

Key: Undergraduate (UG), Post-graduate (PG), Mentored Experience (ME), Experience (E), Self-Directed (SD).