



CIVIL ENGINEER – CERTIFIED (CE-C) EXPERIENCE CHECKLIST

Applicant Name: _____

Applicant Email and Phone Number: _____

Applicant Employer: _____

Date Completed: _____

HOW THIS CHECKLIST WORKS

(Detailed instructions included on subsequent pages.)

Applicant Responsibilities

1. Provide the Experience Checklist to your reviewer(s) for evaluation/scoring.
2. Ensure that checklist has been completely filled out and scored, with all reviewers and contact information included on final page, and your signature.
You may have more than one individual sign off on this checklist, but we recommend one reviewer per outcome whenever possible.
3. Upload final signed checklist with your online CE-C [application](#).

Reviewer(s) Responsibilities

1. Assess each behavior using the 0–2 scale.
2. Initial and add comments only when necessary.
3. Sign at the end of each outcome.

Scoring Scale

- 0 = Not Demonstrated
- 1 = Partially Demonstrated
- 2 = Fully Demonstrated

Passing Requirement: Average score \geq 1.5 across all competencies.

Complete Program Information, Eligibility and Application Instructions available [here](#).



CIVIL ENGINEER, CERTIFIED (CE-C) CERTIFICATION - EXPERIENCE CHECKLIST

ABOUT THE CE-C CERTIFICATION

The Civil Engineer, Certified (CE-C) credential is a post PE, cross-specialty certification designed to validate essential professional competencies aligned with the [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 following licensure.

The CEBOK defines the knowledge, skills, and attitudes required for entry into professional civil engineering practice. While foundational and engineering fundamentals are typically demonstrated through undergraduate education and licensure, technical and professional skills are primarily developed through on-the-job, mentored experience.

The CE-C credential verifies attainment of those CEBOK outcomes that require demonstrated professional experience beyond licensure.

CIVIL ENGINEER, CERTIFIED (CE-C) CERTIFICATION - EXPERIENCE CHECKLIST

APPLICANT INSTRUCTIONS

Detailed CE-C Certification Applicant Instructions

To begin your certification application process, please follow these steps:

1. **Confirm your [Eligibility](#)**
2. **Complete this Experience Checklist**
 - The checklist outlines the required [CEBOK \(Civil Engineering Body of Knowledge\)](#) outcomes that demonstrate your professional experience.
 - Each outcome must be reviewed and signed off by a licensed Professional Engineer (PE) who is familiar with your work. This individual may be your supervisor, mentor or instructor from an approved certificate program*.
 - You may have more than one individual sign off on this checklist, but we recommend one reviewer per outcome whenever possible.
 - **IMPORTANT:** Ensure the final page is completed with the name(s) and contact information of all reviewers, the average score across all outcomes, and a signed verification confirming compliance with all submittal guidelines.
3. **Submit Your Application Package**

Your [application](#) package must include:

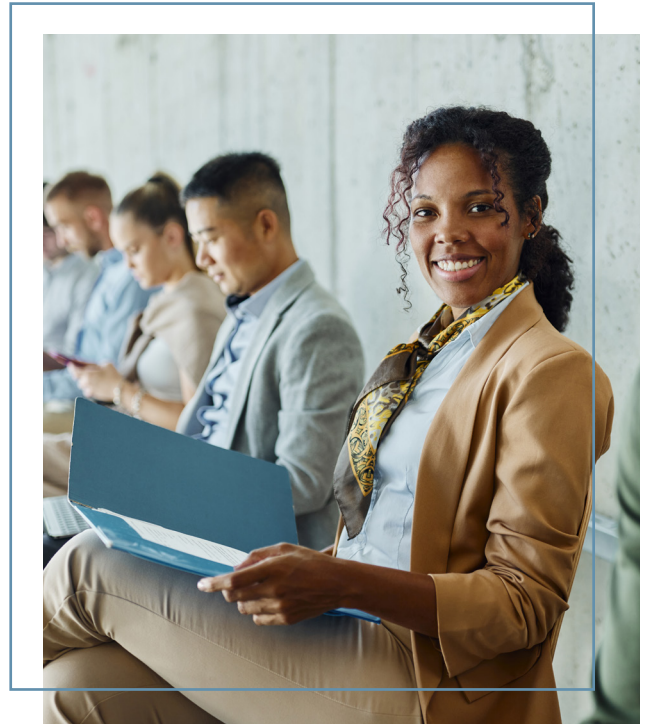
 - Your completed online application form & application fee payment.
 - Your completed and signed experience checklist.
4. **Review and Approval**
 - Once submitted, the CE-C Applications Review Committee will review your checklist and application materials.
 - Upon approval, you will be authorized to take the online written examination and will receive further instructions from CEC staff.
5. **Certification**
 - After successfully passing the exam, you will be awarded your certification.

*Automatic Credit for ASCE Certificates

If you have completed any of the [ASCE Certificate Programs](#) listed below, you may receive automatic credit for specific CE-C Experience Checklist outcomes. This means you will not need to provide additional documentation or examples for those outcomes unless requested.

Communication Outcome

If you have completed the [ASCE Certificate in Communication Skills](#), you automatically receive full credit for the Communication Outcome. This certificate demonstrates the required competencies addressed in this outcome, including professional writing, oral communication, presentations, and communication with diverse audiences.



What this means for you:

You may mark this outcome as “Met through ASCE Certificate in Communication Skills.”
No additional examples or explanations are required for this section of the checklist.

Upload a copy of your certificate of completion in the “Other Documents” section of the uploaded attachments in your online application.

Teamwork & Leadership Outcome

If you have completed BOTH of the following:

[ASCE Certificate in Teamwork](#)

[ASCE Certificate in Leadership Fundamentals](#)

You automatically receive full credit for the Teamwork & Leadership Outcome.

Together, attainment of these certificates demonstrates the required competencies addressed in these outcomes including collaboration, conflict resolution, leadership fundamentals, delegation, decision making, and working effectively on multidisciplinary teams.

Other Certifications

The CE-C Applications Review Committee will consider credit for other professional certifications, and they will be reviewed on an individual basis (i.e., ENV SP, PMP). You will have the opportunity to upload additional documentation of these credentials with your online application.

What this means for you:

You may mark this outcome as “Met through ASCE Certificates in Teamwork and Leadership Fundamentals.”
No additional examples or explanations are required for this section of the checklist.

Upload copies of your certificates of completion in the “Other Documents” section of the uploaded attachments in your online application.

SCORING SUMMARY AND CALCULATION INSTRUCTIONS FOR APPLICANT

Scoring Scale:

(Use the approved scale outlined in the review guidelines (0-2).)

Instructions for Calculating the Average Score Across All 11 Outcomes:

Record the **final score for each outcome** after all reviewer input has been considered.

1. **Add together the final scores** for all outcomes reviewed – enter that number below.
2. Divide the total score by 41, where **41 = the total number of behaviors scored across all outcomes**.
3. The result is your **Average Score Across All Outcomes** – enter that number below.

Formula:

Average Score = (Sum of all outcome scores) ÷ (Total number of Outcome Behaviors scored)

- **Total Number of Behaviors Scored:**
- **Total Score (Sum of all outcomes):**
- **Average Score Across All Outcomes:**

(Attach scoring worksheets or documentation if applicable.)

Minimum Score Guidance

Applicants or programs that **do not achieve an average score of at least 1.5 across all outcomes are strongly encouraged** to work with their **manager or mentor** to identify gaps and develop the required skill set.

Once improvement efforts have been completed and an average score of **1.5 or higher is achieved across all outcomes**, the applicant/program may **resubmit for review** in accordance with established submittal guidelines.

Certification of Compliance

I certify that:

- All required outcomes have been reviewed in accordance with established procedures.
- The information provided is accurate and complete.
- This checklist has been completed in full compliance with **all applicable submittal guidelines**.

Applicant Name:

Applicant Signature:

Date:

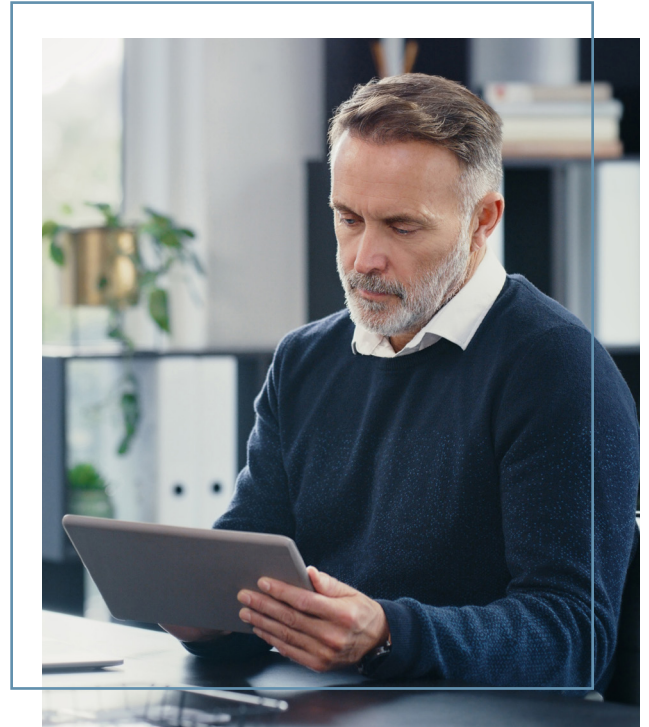
CIVIL ENGINEER, CERTIFIED (CE-C) CERTIFICATION - EXPERIENCE CHECKLIST

REVIEWER INSTRUCTIONS

Your role as a reviewer is to complete the checklist below to evaluate the applicant's:

- Understanding of the concepts and principles of each outcome.
- Ability to analyze how these concepts and principles impact a project.
- Application or potential application of these concepts and principles in a project.
- Each outcome provides guidance on the competencies being evaluated. These points are not exhaustive and may vary based on the applicant's role, organization, and civil engineering specialty.

For your reference, the [CEBOK3](#) provides additional information on understanding the outcomes being evaluated.



REVIEWER GUIDELINES

Scoring Instructions: Evaluate each item using a 3-Point Scale with each item scored as:

- 0 = Not Demonstrated
- 1 = Partially Demonstrated
- 2 = Fully Demonstrated

Please score using whole numbers only: 0, 1, or 2. To be considered for certification - no individual outcome can total to a score of 0.

Passing Criteria:

- Minimum average score of 1.5 across all 11 outcomes.

Once you have completed your portion(s) of the checklist, please sign verifying your scoring and send back to applicant so that they may submit a completed checklist along with their online application.

Note: If you are the final (or sole) reviewer for an outcome, be sure to calculate and enter the total score in the box at the end of that outcome.

PROJECT MANAGEMENT OUTCOME

Description: Demonstrates the ability to plan, coordinate, and manage engineering projects, teams, budgets, schedules, and client needs.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

CLIENT MANAGEMENT	SCORE	REVIEWER INITIALS/COMMENTS
Provide scheduling and progress updates; Communicate technical details to client; Communicate other project details to client; Solicit input, then incorporate into designs; Identify preferences, requirements, and special requests at early stage; Manage project obstacles; Manage expectations (e.g., for deliverable presentation, in defining scope); Establish acceptable risk levels; Resolve conflicts with client.		
PROJECT TEAM MANAGEMENT	SCORE	REVIEWER INITIALS/COMMENTS
Coordinate with other team members; Explain individual tasks and how they relate to overall project; Describe team roles and responsibilities; fulfill personal role; Delegate tasks; Coach team members when needed (e.g., on technical aspects); Solicit team member input; Manage conflict; Direct and coordinate subcontractors.		
PROJECT PREPARATION	SCORE	REVIEWER INITIALS/COMMENTS
Explain the elements of a contract; Apply a work breakdown structure (WBS); Set project scope; Describe different contract types; Select appropriate project delivery methods (PDMs); Sell firm to potential clients; Incorporate/direct contracts with subcontractors; Refine project and/or contract details with client. Address technological needs; Explain budgeted hours and deadlines; Describe types of estimates; Explain human resource allocation (overall staffing needs); Identify necessary inputs and outputs for a project; Weigh factors in choosing whether to bid; Incorporate/direct subcontractors' budgeting and resourcing. Plan stages of a project; Develop schedule logic (Network schedules, Gantt charts, Critical Path Method (CPM)); Establish intermediate milestones; Apply resource leveling.		
MANAGING THE PROJECT	SCORE	REVIEWER INITIALS/COMMENTS
Contribute to inquiry responses; Define scope of work for a project; Convey contract technical details/requirements with project stakeholders; Interface with all stakeholders, and explain the interests of each; Explain management of client relationships; Explain project changes (e.g., schedule changes); Explain and advocate for civil engineering services available to stakeholders/clients. Document and convey completion of project milestones; Write project briefs and other reports; Write project summaries; Convey intent in project deliverables; Provide appropriate, necessary, and required deliverables; Appropriately organize and store documentation. Describe types of deliverables; Apply relevant Standard Operating Procedures (SOPs); Utilize quality control; Utilize document control; Address risks; Close out contracts. Review and check internal project work (e.g., calculations) and technical products; Identify and apply relevant safety codes; Drive technical design and drafting; Apply processes to bolster productivity/efficiency; Revise project parameters as needed; Monitor and control subcontractors' work. Maintain personal design records; Establish final storage requirements (e.g., digitized data); Maintain version control; Incorporate records from other team members/subordinates; Incorporate records from subcontractors; Apply record-retention requirements (e.g., company-standard, jurisdictional). Build out project plans and assign responsibilities for deliverables; Manage time, milestones, and schedules effectively; Ensure all team members help develop and understand project tasks and goals; Actively solicit feedback from all stakeholders; Identify team members' expertise; Remain focused on project goals by meeting established milestones; Recognize issues as they arise and incorporate solutions; Gather lessons learned for implementation on future projects.		
COMMUNICATING EFFECTIVELY	SCORE	REVIEWER INITIALS/COMMENTS
Use appropriate communication channels; Write justification of project management decisions; Coordinate with subcontractors.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Project Management
Reviewer Name(s)	Reviewer Initials	Signature(s)	

RISK AND UNCERTAINTY OUTCOME

Description: Evaluates uncertain information, identifies risks in design and operations, and applies strategies to minimize negative impacts.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

DATA-DRIVEN ANALYSIS	SCORE	REVIEWER INITIALS/COMMENTS
Describe and convey uncertain data; Assess the quality of project data and how variability can affect an engineering evaluation; Evaluate project data in an unbiased manner; Explain the relationship between probability concepts and uncertainty; Describe the limits of the analysis methods used.		
DESIGN CONSIDERATIONS	SCORE	REVIEWER INITIALS/COMMENTS
Clearly define design constraints in submittals/solutions; Integrate risk management strategies during design development; Apply conservative design to address risks and uncertainties; Interpret safety factors, load factors, and risk categories per code; Identify root causes and consequences of design failures; Assess uncertainty and confidence in design parameters; Recognize when to exceed codes, safety regulations, and standards; Evaluate current and future hazard impacts and uncertainties.		
EVALUATION OF TECHNICAL SOLUTIONS	SCORE	REVIEWER INITIALS/COMMENTS
Explain industry standard risk analysis frameworks when available; Acknowledge and understand the risk and limitations associated with each design alternative when selecting the optimal solution for a particular context; Describe the use of modeling, prototyping, and testing in risk assessment.		
RISK MANAGEMENT	SCORE	REVIEWER INITIALS/COMMENTS
Recognize the risk of errors in statistical assumptions; Explain why risk and uncertainty cannot be fully avoided; they are inherent to all engineering design as the standards are based on probabilistic studies; Acknowledge one's own limitations and seek advice when at those limits; Demonstrate that not all risk and uncertainty can be quantified. Consider the "what ifs" that might occur on projects (Consider scenarios, including "worst case," to assess level of risk & Recognize methodologies to assess risk); Assess technical and project risk; Describe potential implications of the risk associated with design/technical issues; Describe safety factors and acceptable risk levels. Explain the balance between risk and reward; Select alternatives to mitigate unacceptable risk; Describe project risk to all stakeholders (e.g., funding issues, initial and long-term costs, and schedule); Explain organizational risk, such as risk to reputation; Describe liability associated with the project; Implement a design based on acceptable risk levels.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Risk & Uncertainty
Reviewer Name(s)	Reviewer Initials	Signature(s)	

COMMUNICATION OUTCOME

Description: Communicates clearly, professionally, and appropriately with both technical and non-technical audiences.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

CONNECTING WITH YOUR AUDIENCE	SCORE	REVIEWER INITIALS/COMMENTS
Interface with non-technical audiences (e.g., general public, government representatives, executive decision-makers, engineers); Develop effective visual materials that engage and educate non-technical audiences; Utilize effective and appropriate non-verbal communication; Know and engage your audience and adjust language accordingly; Tailor communication medium to the target audience; Explain cross-generational communication barriers.		
PROFESSIONALISM, ETHICAL BEHAVIOR, & COMMUNICATION	SCORE	REVIEWER INITIALS/COMMENTS
Consider others' time; Prepare adequately (e.g., for client meetings, for presentations); Describe formal and informal communication; Use professional, formal language when necessary; Maintain professional reputation on social media accounts; Maintain honesty and earn trust; Use appropriate communication channels depending on the purpose (e.g., formal writing to client vs. informal text message to colleague about running late); Demonstrate ability to resist pressure to act unethically; Emphasize priority of responsibilities (e.g., safety before meeting deadlines); Recommend action based on technical expertise; Strive to uplift others; Carry a positive attitude; Manage team conflict with tactful communication.		
CONCISENESS AND CLARITY	SCORE	REVIEWER INITIALS/COMMENTS
Concisely explain civil engineering problems; Convey a clear message to the audience; Simplify language when possible; Avoid technical jargon, acronyms, and idioms; Adapt for international audiences; Emphasize main points; Use proper grammar and appropriate language to avoid miscommunication; Provide actionable recommendations or guidance to resolve issues.		
ACTIVE LISTENING	SCORE	REVIEWER INITIALS/COMMENTS
Listen and work toward understanding diverse perspectives; Show curiosity; Ask questions; Check for audience reaction; Request, incorporate, and respond to feedback (including necessary follow-up).		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Communication
Reviewer Name(s)	Reviewer Initials	Signature(s)	<input type="checkbox"/> Check this box if outcome is met through ASCE Certificate in Communication Skills

TEAMWORK AND LEADERSHIP OUTCOME

Description: Works effectively within teams, demonstrates leadership when appropriate, and adapts to diverse perspectives and styles.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

RESPONSIBILITY	SCORE	REVIEWER INITIALS/COMMENTS
Communicate effectively through presence, active listening, and thoughtful response; Clarify team purpose and individual roles. Distinguish delegation and oversight from task execution; Factor in resource availability when planning approaches; Ensure stakeholder perspectives are included; Model ethical behavior and sound decision-making.		
EMOTIONAL INTELLIGENCE	SCORE	REVIEWER INITIALS/COMMENTS
Practice self-awareness (recognize and analyze your own biases and ego's need to be right & avoid assumptions about people based on their identity and lived experiences); Demonstrate empathy; Have the ability to put yourself in someone else's position & consider their perspectives; Value the combined knowledge of the team to analyze complex problems; build and maintain a growth mentality.		
ADAPTABILITY	SCORE	REVIEWER INITIALS/COMMENTS
Adjust to different team members' personalities, perspectives, and styles to achieve project goals; Work with different personalities (e.g., dominating, passive, non-performing) among team members; Perform the appropriate team role, remaining flexible to changes; Serve as a model, encourage, and empower team members to ask questions; Support team decisions.		
TEAM COMMUNICATION & DYNAMICS	SCORE	REVIEWER INITIALS/COMMENTS
Speak with the goal of connecting and being understood and check for understanding; Engage all team members fully and provide prompt updates; Emphasize the team (e.g., avoid placing blame on others; use "we" instead of "I"); Foster the open sharing of divergent views and innovative ideas; Practice active listening; Communicate in accessible formats; Work effectively with diverse team members (e.g., lived experience and professional role); Effectively adapt to varied personality styles; Accept job assignments even when the assignment is not preferred; Assemble a team that has the necessary resources and expertise for the task; Support team members who are struggling with job assignment/schedule; Avoid taking things personally and keep the team focused on the objective.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Teamwork & Leadership
Reviewer Name(s)	Reviewer Initials	Signature(s)	<input type="checkbox"/> Check this box if outcome is met through ASCE Certificates in Teamwork and Leadership Fundamentals

ETHICAL RESPONSIBILITIES OUTCOME

Description: Demonstrates ethical judgment, protects public safety, manages conflicts of interest, and adheres to professional standards.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

APPLIES PROFESSIONAL ETHICS	SCORE	REVIEWER INITIALS/COMMENTS
<p>Address conflicts of interest when: procuring work/contracts, materials and services, and/or providing services.</p> <p>Distinguish between different types of bribery (e.g., financial vs. quid pro quo); Analyze whether bribery is being offered; Apply company and jurisdiction standards regarding bribery.</p> <p>Treat coworkers, both in and outside of the firm, fairly; Recognize and apply diversity, equity, and inclusion among colleagues, suppliers, and contractors; Ensure equitable treatment of the community affected by a project.</p> <p>Demonstrate a commitment to ethical conduct, adherence to legal requirements, and a proactive approach to managing risks and potential disputes.</p>		
PROTECT STAKEHOLDER INTERESTS	SCORE	REVIEWER INITIALS/COMMENTS
<p>Protect proprietary/trade information; Recognize and protect firm ownership of non-proprietary, but company-directed information (e.g., deliverable template, standardized calculation); Maintain obligations to past employer.</p> <p>Support health and safety of general public regardless of financial implications; Prioritize the public at all times; Report latent errors.</p>		
CHAIN OF RESPONSIBILITY	SCORE	REVIEWER INITIALS/COMMENTS
<p>Discuss concerns with appropriate parties; Follow reporting procedures; Report to the appropriate authority (e.g., management, HR, an external entity).</p>		
PERSONAL EXPERTISE	SCORE	REVIEWER INITIALS/COMMENTS
<p>Explain scope of personal role; Maintain up-to-date knowledge of the field; Employ best practices even when they are against client's preference; Defer to others' personal expertise.</p>		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Ethical Responsibilities
Reviewer Name(s)	Reviewer Initials	Signature(s)	

PROFESSIONAL ATTITUDES AND RESPONSIBILITIES OUTCOME

Description: Exhibits dependability, curiosity, adaptability, creativity, and commitment to lifelong learning and licensure responsibilities.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

CREATIVITY & INNOVATION	SCORE	REVIEWER INITIALS/COMMENTS
<p>Apply and illustrate creativity relevant to the practice of civil engineering. Creativity refers to the ability to generate novel and useful solutions to complex problems, often involving unconventional approaches and innovative thinking.</p> <p>Demonstrate creativity and ingenuity to develop new solutions while upholding ethical principles and prioritizing public safety and well-being. Understanding the balance between pushing the boundaries of what is possible in design, materials, and technology, and ensuring that these innovations are sound, sustainable, and benefit society.</p>		
CURIOSITY	SCORE	REVIEWER INITIALS/COMMENTS
<p>Apply and illustrate curiosity relevant to the practice of civil engineering. Curiosity refers to a civil engineer's desire to continuously learn, explore, and understand the intricacies of built environment projects and the impact they have on society.</p>		
FLEXIBILITY	SCORE	REVIEWER INITIALS/COMMENTS
<p>Apply and illustrate flexibility relevant to the practice of civil engineering. Flexibility refers to the ability to effectively adjust and adapt to evolving circumstances, challenges, and new information throughout the lifecycle of a project.</p>		
DEPENDABILITY	SCORE	REVIEWER INITIALS/COMMENTS
<p>Apply and illustrate dependability relevant to the practice of civil engineering. Dependability in civil engineering is about being consistently trustworthy and reliable, ensuring that work is completed with accuracy, on time, and meeting all required standards and ethical guidelines.</p>		
LICENSURE & CREDENTIALING	SCORE	REVIEWER INITIALS/COMMENTS
<p>Appreciate and understand the importance of professional licensure, when licensure is required, the process of becoming a licensed professional engineer (PE), and the responsibilities associated with licensed practice. This includes lifelong learning to stay current with advances in civil engineering practice.</p> <p>Recognize various types and levels of professional expertise where credentialing requires a specialized knowledge and an expectation of additional professional responsibilities.</p>		
SAFETY	SCORE	REVIEWER INITIALS/COMMENTS
<p>Prioritize public safety above all else, embedding it as a core value in every aspect of a project, and fostering a robust safety culture.</p>		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Professional Attitudes & Responsibilities
Reviewer Name(s)	Reviewer Initials	Signature(s)	

BREADTH IN CIVIL ENGINEERING AREAS OUTCOME

Description: Demonstrates understanding across multiple civil engineering disciplines and integrates cross disciplinary solutions.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

ANALYZE	SCORE	REVIEWER INITIALS/COMMENTS
Able to integrate complex problems that cross multiple specialty areas appropriate to the practice of civil engineering. Specialty areas include but are not limited to construction engineering, environmental engineering, geotechnical engineering, water resources engineering, structural engineering, surveying, and transportation engineering		
SYNTHESIZE	SCORE	REVIEWER INITIALS/COMMENTS
Demonstrates ability to integrate solutions for complex problems that involve multiple specialty areas appropriate to the practice of civil engineering.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Breadth in Civil Engineering Areas
Reviewer Name(s)	Reviewer Initials	Signature(s)	

Outcome 7 of 11

ENGINEERING ECONOMICS OUTCOME

Description: Uses economic principles to evaluate project feasibility, alternatives, budgeting, and costs over time.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

TIME VALUE OF MONEY	SCORE	REVIEWER INITIALS/COMMENTS
Understand and apply the principles of Time Value of Money in evaluating project cost over time, project feasibility, and alternative analysis.		
CASH FLOW	SCORE	REVIEWER INITIALS/COMMENTS
Apply the principles of cash flow including initial capital costs, annual operating and maintenance costs, repair, salvage, and replacement costs when evaluating the cost of a project.		
ECONOMIC ANALYSIS	SCORE	REVIEWER INITIALS/COMMENTS
Apply economic analysis considering present and/or annual worth. Understand Return on Investment (ROI) when evaluating project investments. Understand cost-benefit analysis when evaluating project funding priorities.		
Understand and apply the various costs included in design or construction including fixed, variable, direct, and indirect costs when estimating project budgets.		
Understand the concepts of profit and loss when evaluating project performance.		

Understand and apply the various costs included in design or construction including fixed, variable, direct, and indirect costs when estimating project budgets.			Total Score Engineering Economics
Reviewer Name(s)	Reviewer Initials	Signature(s)	

SUSTAINABILITY OUTCOME

Description: Evaluates sustainability and resiliency impacts, and integrates sustainable principles appropriately into design.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

ANALYZE	SCORE	REVIEWER INITIALS/COMMENTS
Able to analyze the sustainable performance of complex civil engineering projects from a systems perspective.		
COMMITMENT	SCORE	REVIEWER INITIALS/COMMENTS
Integrate a commitment to sustainability principles into the practice of civil engineering. Acknowledges the importance of sustainability and complies with its concepts and principles. Understands the benefits of sustainability in the practice of civil engineering.		
Analyze impact of projects on surroundings; Address all stakeholders; Ensure resilience of work products; Incorporate environmentally sustainable design.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Sustainability
Reviewer Name(s)	Reviewer Initials	Signature(s)	

Outcome 9 of 11

DESIGN OUTCOME

Description: Applies design principles, develops alternatives, and incorporates codes, constraints, and constructability into engineering design.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

ANALYZE	SCORE	REVIEWER INITIALS/COMMENTS
Demonstrate the ability to analyze complex civil engineering projects and determine design requirements and constraints. Has developed a Basis of Design for two or more projects or engineering studies.		
DESIGN DEVELOPMENT	SCORE	REVIEWER INITIALS/COMMENTS
Develop appropriate design alternatives for complex civil engineering projects. Considers issues such as risk assessment, societal and environmental impacts, standards, codes, regulations, safety, security, sustainability, resilience, constructability, and operability at various stages of the design process. Is familiar with interactions among planning, design, construction, and operations and considers design life-cycle assessment.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Design
Reviewer Name(s)	Reviewer Initials	Signature(s)	

CRITICAL THINKING AND PROBLEM SOLVING

Description: Analyzes complex problems, evaluates data, generates solutions, and communicates rationale clearly.

Reviewer Instructions: Read each knowledge outcome and its key behaviors, score each key behavior as 0, 1, or 2 using the guidelines on page 6, initial as required, comment only when necessary, and sign at the bottom of the table.

Key Behaviors are listed under each knowledge outcome area.

IDENTIFYING AND DEFINING PROBLEMS	SCORE	REVIEWER INITIALS/COMMENTS
Defines the real problem and core constraints. Distinguishes root causes from surface symptoms.		
EXPLAINING THE SCOPE AND CONTEXT OF PROBLEMS	SCORE	REVIEWER INITIALS/COMMENTS
Gathers relevant data and assesses its reliability and limitations. Identifies missing, conflicting, or uncertain information.		
GENERATING SOLUTIONS	SCORE	REVIEWER INITIALS/COMMENTS
Formulates feasible solution options (not just one). Using learned material in new and creative solutions.		
ANALYZING SOLUTIONS	SCORE	REVIEWER INITIALS/COMMENTS
Breaks complex solutions into logical civil engineering components. Evaluates possible solutions using clear criteria, tradeoffs, and impacts.		
DEVELOPING REFINED SOLUTIONS	SCORE	REVIEWER INITIALS/COMMENTS
Compiles an appropriate set of solutions through analysis. Clearly communicates rationale behind recommendations.		

Final Reviewer Instructions: Document the overall score by adding the scores in all boxes for this outcome and add your name, initials, and signature.			Total Score Critical Thinking & Problem Solving
Reviewer Name(s)	Reviewer Initials	Signature(s)	

CIVIL ENGINEER, CERTIFIED (CE-C) CERTIFICATION - EXPERIENCE CHECKLIST

FINAL REVIEWER VERIFICATION, SCORING, AND CERTIFICATION

Applicant Name: _____

Date Completed: _____

Reviewer Information

Applicant must list **all reviewers** who completed the checklist. Attach additional pages if more space is required.

Reviewer 1

Full Name:

Relationship to Applicant:

Title / Position:

PE License Info (State / # if available):

Organization:

Email:

Phone:

Reviewer 2

Full Name:

Relationship to Applicant:

Title / Position:

PE License Info (State / # if available):

Organization:

Email:

Phone:

CIVIL ENGINEER, CERTIFIED (CE-C) CERTIFICATION - EXPERIENCE CHECKLIST

FINAL REVIEWER VERIFICATION, SCORING, AND CERTIFICATION

Applicant Name: _____

Date Completed: _____

Reviewer Information

Applicant must list **all reviewers** who completed the checklist. Attach additional pages if more space is required.

Reviewer 3

Full Name:

Relationship to Applicant:

Title / Position:

PE License Info (State / # if available):

Organization:

Email:

Phone:

Reviewer 4

Full Name:

Relationship to Applicant:

Title / Position:

PE License Info (State / # if available):

Organization:

Email:

Phone:

CIVIL ENGINEER, CERTIFIED (CE-C) CERTIFICATION - EXPERIENCE CHECKLIST

FINAL REVIEWER VERIFICATION, SCORING, AND CERTIFICATION

Applicant Name: _____

Date Completed: _____

Reviewer Information

Applicant must list **all reviewers** who completed the checklist. Attach additional pages if more space is required.

Reviewer 5

Full Name:

Relationship to Applicant:

Title / Position:

PE License Info (State / # if available):

Organization:

Email:

Phone:

Reviewer 6

Full Name:

Relationship to Applicant:

Title / Position:

PE License Info (State / # if available):

Organization:

Email:

Phone: