

## **CHARTER COMMITTEE ON THE CIVIL ENGINEERING TECHNOLOGIST (CCET)**

### **INTRODUCTION**

ASCE formed three different task committees over the last decade related to understanding the civil engineering technologist: the Paraprofessional Exploratory Task Committee (PETC), the Paraprofessional Task Committee (PTC) and the Technologist Credentialing Task Committee (TCTC). PTC and TCTC produced reports attempting to define the role of the civil engineering technologist in the civil engineering profession and outline the need for a potential credentialing system. The task committees identified a need to continue the technologist initiative in order to refine plans for better integrating technologists into the civil engineering professional community and further evaluating and planning a new credential.

TCTC, the most recent task committee, presented its report to the Board in October 2013, with a recommendation of forming a standing committee under the Committee on Advancing the Profession (CAP) to continue the technologist initiative. The Board approved this recommendation, and the Committee on the Civil Engineering Technologist (CCET) is scheduled to begin its work in October 2014.

The committee's initial projects will include reviewing literature to understand and define the role of the civil engineering technologist, evaluating the need and feasibility of a technologist credentialing system, and updating the *ASCE Guidelines for Engineering Grades* brochure to include technologists if deemed appropriate.

### **OFFICIAL CHARGE**

The Committee on the Civil Engineering Technologist shall advance the integration of civil engineering technologists into the civil engineering profession.

### **DETAILED CHARGE**

1. Review the PETC, PTC and TCTC reports for background on ASCE's technologist initiative.
2. Review ASCE Policy Statement 535 to determine if updates are needed to represent technologists consistent with *The Vision for Civil Engineering in 2025* and *Achieving the Vision for Civil Engineering in 2025*, and/or develop a separate policy statement, as a supplement, to better define the role of technologists in civil engineering.
3. Survey stakeholders, such as Engineering Technology program chairs and Industry "hirers," to determine what knowledge, skills, and attitudes the programs aim to

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develop, and what skills the graduates actually display. Use this survey to determine the need and a plan for a credentialing program that supports these key stakeholders.

4. Update the *ASCE Guidelines for Engineering Grades* brochure and consider inclusion of technologists and technicians. Finalize the document as a web resource or brochure.
5. Stay abreast of developments affecting civil engineering technologists including material published on the topic by the American Society for Engineering Education (ASEE), National Institute for Certification in Engineering Technologies (NICET), the ABET Engineering Technology Accreditation Commission (ETAC) and other stakeholders. Advise ASCE volunteer leaders and staff on new developments and policies by such stakeholders.
6. Form a task committee to develop a Civil Engineering Technologist Body of Knowledge (CET-BOK) to define (a) the knowledge, skills and attitudes necessary for entry into the practice of civil engineering technology, (b) how this body of knowledge can be fulfilled, and (c) who should facilitate the learning of the civil engineering technologist.
7. Evaluate and prepare a plan to develop a civil engineering technologist credential. Specifically:
  - a. Complete a detailed market analysis of the proposed Civil Engineering Technologist Credentialing Program;
  - b. Engage the stakeholders of the proposed certification program to assist with the development and maintenance of the program and to improve its quality and marketability;
  - c. Identify and engage potential partners both inside and outside of civil engineering to improve marketability and reduce the financial risk imposed by the program development;
  - d. Complete a detailed feasibility study for the certification program based on the market analysis and the CET-BOK and finalize in detail the program requirements and structure;
  - e. Prepare a detailed business plan for the program if confirmed to be feasible.

## COMMITTEE COMPOSITION

The new committee will have eight (8) full members, including two (2) current or past Geographic or Technical Region Governors, plus additional corresponding members. CAP envisions a committee made up of a diverse cross-section of the engineering

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profession – especially individuals with background practicing as, hiring, or educating civil engineering technologists.

The committee will be populated with ASCE members.

### **EFFORT EXPECTED OF COMMITTEE MEMBERS**

1. Commit to active involvement throughout their defined term (3 years), with an option to renew at the end of their term.
2. Participate in an estimated two face-to-face meetings per year which will be held in a cost effective location and occur all day Saturday and half of Sunday. Travel expenses will be reimbursed for full committee members up to the maximum limits of ASCE policy.
3. Participate in one-hour conference calls to be held monthly.
4. Equitably volunteer for research, writing, and presentation tasks and/or accept task assignments as needed to carry out the committee's charges.