

Civil Engineering Body of Knowledge

Preparing the Future Civil Engineer

Third Edition

PREPARED BY
Civil Engineering Body of Knowledge 3 Task Committee

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Preface

We are wise not by the recollection of our past, but by the responsibility for our future.

—George Bernard Shaw

What is the *Civil Engineering Body of Knowledge*?

This Third Edition of the *Civil Engineering Body of Knowledge* (CEBOK3) is focused on preparing the future civil engineer for entry into the profession. Specifically, the *Civil Engineering Body of Knowledge* (CEBOK) defines the knowledge, skills, and attitudes necessary for entry into the practice of civil engineering at the professional level. As described in this report, the preparation of the future civil engineer and the fulfillment of the CEBOK must include both formal education and mentored experience. Early career experience, specifically experience that progresses with increasing complexity, quality, and responsibility and that is mentored by those who are practicing civil engineering at the professional level, is a necessary part of a civil engineer's attainment of the CEBOK.

Who Should Be Interested in the *Civil Engineering Body of Knowledge*?

All civil engineers, including students studying civil engineering, those who teach civil engineering, early career civil engineers, those who mentor early career civil engineers, those who employ civil engineers, those who design civil engineering projects, those who lead and manage groups of civil engineers and civil engineering projects, and those who conduct research in civil engineering, should be very interested in the CEBOK3. Essentially, all members of the civil engineering profession should be interested in the CEBOK3 as we all, as members of an amazing and exciting profession, should be committed to and supportive of preparing the next generation of civil engineers. This Third Edition of the *Civil Engineering Body of Knowledge* is the roadmap for properly preparing our future civil engineers, not for practice as we know it today, but for the profession as we expect it to be tomorrow.

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