Engineers Australia Heritage & Conservation Engineering Education

The following course has been designed to fulfil the heritage theory requirements for registration as a Heritage and Conservation engineer under the National Engineering Register.

COURSE 1: Contexts for Heritage Engineering

Learning Outcomes Statements

- Demonstrate knowledge of the heritage management process including the role and responsibility of heritage engineers.
- Demonstrate an understanding of the process of conservation of cultural heritage including an awareness of multiple possible solutions to problems.
- Demonstrate an awareness of heritage materials and the different issues they present in terms of historic evidence, deterioration (including environmental vulnerability) and health and safety.
- Demonstrate the ability to carry out a range of observations including material identification and material condition.
- Demonstrate independent work applying this learning in an industry context.

Syllabus

- Introduction to the world of heritage
    - Conservation principles
    - Significance
    - Restoration and adaptive reuse
- Introduction to heritage materials

Delivery Design

- Introductory online learning including readings, online Q&A session
- Two day in-person on-site intensive, delivered on a real-world heritage site
    - Day one – focus on context and conceptual frameworks.
    - Day two – focus on learning through practical experiences.
- Post intensive written assessment on a site local to the student, providing an opportunity to reflect on their learning in their local environment.
- The course will provide the student with 30 hours of professional development.