



## INTEGRATED ENGINEERING

Integrated Engineering has been established as a discipline of registration for professional engineers under the following criteria:

- i. Graduates should hold an accredited Integrated Engineering degree;
- ii. Acceptable experience should:
  - a. be broad-based and include engineering science and design in one or more (traditional) disciplines of practice;
  - b. the candidate should have major knowledge of at least one (traditional) discipline with practicing knowledge of a second. The two disciplines are to be fundamentally different but related through the employer's area of practice or by the scope of the engineering projects undertaken by the applicant;
  - c. be supported by appropriate course selection in undergraduate studies;
  - d. be supported by a design portfolio;
  - e. have significant communication elements;
  - f. be supported by referees from the (traditional) disciplines demonstrated in the experience;
  - g. adhere to the 'Satisfactory Engineering' experience requirements for all applicants.

### **Treatment of Applicants and Support for Engineers-in-Training**

Applicants registering through the Integrated Engineering discipline will be expected to demonstrate fulfillment of the above criteria. It is recommended that, initially, only graduates of Integrated Engineering programs be considered for registration through this discipline. It is recognized that others may apply for registration in Integrated Engineering and that they will need to be evaluated on a case-by-case basis, with specific attention to their academic formation. The Association will encourage graduates of traditional disciplines to pursue registration in their discipline of graduation, unless a strong case can be made for qualification through Integrated Engineering.

The Integrated Engineering graduate will be supported through the Engineer-In-Training program by provision of special advice to supervising engineers on the need to provide experience in two disciplines, such that the EIT can eventually practice independently in these two disciplines. Acceptable pre-graduation experience will be credited if in one discipline, as long as criteria (ii)'b' (above) is ultimately fulfilled during the four years of training.

Integrated Engineering graduates who gain experience in one of the other disciplines will be evaluated for registration through that discipline, in the normal fashion, taking into account the correlation of their academic and professional development activities to their experience.