



ENGINEERS AUSTRALIA

Professional Engineers & the Construction Sector

Engineers Australia's offering to you

EA recognises the talent and experience of engineers in the building and construction sector.

We have a long and illustrious heritage spanning almost 100 years. **Our purpose?** To represent the engineering profession as a whole. Currently, we hold 100,000 members: by far the largest organisation for engineers in Australia.

We are the 'professional home for life' for engineers; and we'd like to invite you to join us.

Benefits to employers

Are you already providing encouragement and financial support to EA members?

Your benefits include:

- EA has a commitment to current and prospective clients to better engineering standards and the development of the engineering workforce
- Ability to recognise the capability of your engineering team
- Create a structured, supported and clear program for your engineering workforce
- Excellence Awards ensuing industry recognition of people and projects at regional, state and national levels
- Engineering Education Australia – structured program of formal training and courses that align with the chartered engineering competencies
- Over 200 events hosted annually by EA technical groups and regions
- Networking with potential business clients and developing opportunities. Providing support to engineers entering or re-entering the workforce, particularly female engineers

Professional home for leaders & managers

The College of Leadership and Management (CLM) is the home for engineers who are leaders in their roles within the community, have management positions in their organisation, or who are technical specialists in an area not already covered by existing Colleges.

The College:

- Promotes expectations of excellence in engineering leadership and management
- Encourages and empowers engineers to transfer their professional engineering disciplines across to management and leadership roles
- Attracts and retains members whose careers encompass broader disciplines and responsibilities
- Provides opportunities for personal development and recognition of achievements

Engineering Executive, or EngExec, recognises those leading at the highest tier of their industry with a post nominal that immediately communicated the well-earned prestige.

An invitation-only community, it is reserved for Engineers Australia members who demonstrate leadership and management competency and

show they've played a significant role in enhancing the engineering profession.

The EngExec post-nominal communicates the well-earned prestige of engineers at the highest tier of their industry and builds on the respect and recognition afforded to the Chartered post-nominal.

To find out more, head to engexec.org

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Professional Engineers & the Construction Sector

Increasing awareness of, & compliance with, the Professional Engineers Act (QLD) 2002

Do construction engineers provide engineering services?

Construction engineers do more than just oversee and manage a construction process. They utilise their engineering skills to provide many professional engineering services, including:

a| Interpretation of engineering drawings to ensure that the functionality of the designed infrastructure is actually 'as fit for purpose' for the actual site conditions.

b| Facilitating and/or identifying potential on-site design changes, for approval by the client/superintendent/designer.

c| Facilitating and/or identifying the need for design and certification of temporary work for approval by a third party designer.

d| Identifying errors in design drawings prior to actual construction, such as reinforcing steel details, dimensioning errors, joint details (e.g. beam/girders/ columns/bearings).

e| Applying value engineering processes to construction projects – including the identification, assessment and adoption of innovative construction concepts and resulting solutions across all contract delivery models, particularly where the contractor is involved during the early stages of the project life cycle, e.g. D&C, ECI, Alliance, etc.

Do construction engineers need to be registered under the QLD Professional Engineers Act 2002?

While construction managers or project managers may come from a variety of professional streams, for example: architects, cost planners, quantity surveyors; **only Registered Professional Engineers of Queensland (RPEQ) can provide professional engineering services.**

The Professional Engineers Act (Qld) 2002 defines professional engineering services as:

“...an engineering service that requires, or is based on, the application of engineering principles and data to a design, or to a construction, production, operation or maintenance activity, relating to engineering; and does not include an engineering service that is provided only in accordance with a prescriptive standard.”

The intent of the legislation is to protect the public and maintain confidence by ensuring professional engineering services are provided by a registered professional engineer in a professional and competent manner. Compliance with the Act underpins delivery standards to satisfy the community's trust in such services and is not to be avoided by playing with definitions.



“As the largest purchaser of engineering services in Queensland, we expect that professional engineering services provided by our suppliers **will be undertaken by RPEQs.**”

Neil Scales OBE FIEAust CPEng NER RPEQ
Director-General, Department of Transport and Main Roads

Why is Engineers Australia important to engineers in the construction sector?

Engineers Australia is the global home for engineering professionals renowned as leaders in shaping a sustainable world.

We provide a professional home for life that supports engineers through:

- Access to continuing professional development to keep skills up to date
- Career resources
- Technical information and access to online engineering databases and libraries

- Networking events
- International mobility and recognition
- Advocacy work on behalf of the profession

Engineers Australia is an accredited assessment entity under the Act and provides two pathways to assess competency requirements for inclusion on the RPEQ.

1. **Our National Engineering Register (NER)** assessment pathway allows engineers to meet their minimum legal requirements for registration under the Act.

2. **Our Chartered assessment process** not only meets the competency requirements for registration under the Act, but is also an internationally benchmarked badge of competency recognised around the world through numerous mutual recognition agreements.

