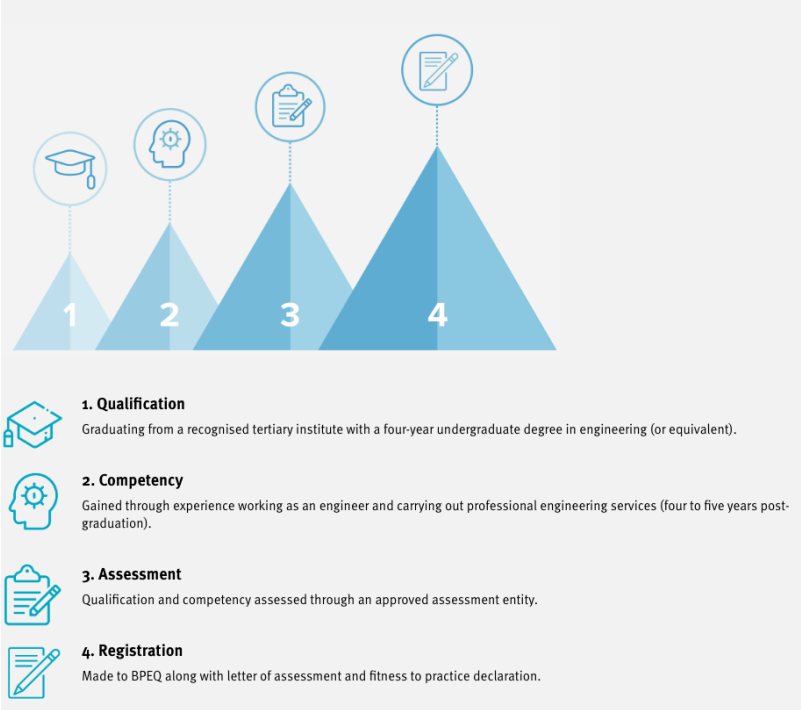
Q1
“After graduating with an engineering degree from UQ, you will be eligible to practice as a professional engineer in Queensland”.

The process of becoming a professional engineer involves meeting specific eligibility requirements and demonstrating competence in the relevant areas of engineering.

In Queensland, practicing engineers must be registered to carry out professional engineering services.[4] Registration as a RPEQ is *formal recognition of the qualification and competency of an engineer in the State of Queensland*.[3] It is a four stage process:



credits: https://bpeq.qld.gov.au/registration/become-a-rpeq/

The education that I have received at UQ has provided me with a comprehensive understanding of the principles of software engineering. My program includes a lot of practical experience, with significant exposure to the industry, which allows me to apply my knowledge and skills to real-world engineering projects. My degree is a **recognised four-year professional engineering degree**[1], which qualifies me as a Professional Engineer in Australia.

Also, the program requires me to complete at least **450 hours of Engineering Professional Practice**[2] before graduation. This makes sure that, going forward, I'm prepared to hit the ground running with significant prior experience. Together,

my degree and the Engineering Professional Practice hours cover a significant part of the first two stages of the process.

I understand that becoming a registered professional engineer will require ongoing professional development and a commitment to adhering to the standards of competence and ethics set out by the Board of Professional Engineers of Queensland. Engineers Australia also states that if you work under the direct supervision of a registered engineer, you can carry out professional engineering services. That is why, until I get the RPEQ certification, I will work under a registered software engineer.

Software engineering is a field of opportunities, and I have had numerous experience before. I am committed to continuously learning and staying up to date with the latest developments in the field of engineering. Moreover, recent graduates have a huge advantage over industry professionals in that the knowledge they gain is fresh, especially because UQ keeps the courses updated to reflect the latest trends in software engineering. This makes me confident that I will be able to join a software company and practice professional after graduating from UQ. I am eager to explore the opportunities that lie ahead and to continue learning and growing as an engineer. I am committed to upholding the highest standards of competence and ethics and making a positive impact in the field of engineering.

References:

[1] https://www.eait.uq.edu.au/current-students/employability/engineering-professional-practice
[2] https://portal.engineersaustralia.org.au/chartered/self-assessment
[3] https://www.professionalengineers.org.au/RPENG/Content/What_we_do/About_RPEQ.aspx
[4] https://www.engineersaustralia.org.au/credentials/registration/state-registration?gclid=Cj0KCQjw8qmhBhCIARIsANAtbofxQFt7Ile5_9s1QGe8n27h_MTWRbNAQWY0bwHKRDsp_n6kDeWxK3kaAkDQEALw_wcB#accordion-1491:~:text=In%20Queensland%2C%20practising%20engineers%20must%20be%20registered%20to%20carry%20out%20professional%20engineering%20services.

Q2.

a) Included in the end

b) I have completed 537 hours in the industry as part of my Engineering Professional Practice, in which I have learnt about numerous processes and

systems in place that make a technological venture successful. I have been lucky to have worked closely under highly experienced professionals and academics alike. Apart from that, I have also started and run 2 software startups. Running my own startup gave me the experience and courage required to learn things and explore all on my own. I has also given me a very good sense of prioritizing my tasks and using every resource available to me to get tasks done. It has also given me experience in a wide range of activities - from talking to clients, drafting legal papers and consulting professionals to doing detailed financial analyses of my projects.

c)

Competency 1: Judgement:
Judgement is developed as a result of facing real life challenges and responding to them aptly. That is why I firmly believe that this competency can only be increased by putting in effort and time in the industry. I plan to take up as many opportunities in the industry as I can to increase my chances of facing and solving critical problems and improve my judgement.

Competency 2: Evaluation:
This competency is also similar to judgement in that it is a result of time rather than talent. Leadership roles within the team which require me to see the bigger picture of the project, where it fits in, and how it affects its stakeholders are the best way for me to cultivate this skill. I also plan to work directly under leaders so as to learn how they solve the problems and apply the same later on.

Self Assessment Result

Below are the results of your self assessment, including guidance on the next steps in your Chartered Journey.

Rating Definitions

Developing

An aspect of Practice that you are learning and where you need supervision to practise at an acceptable standard.

Functional

An aspect of Practice where you can act independently at an acceptable standard without help or supervision.

Proficient

An aspect of Practice where your ability to act independently is recognised as at a high standard and you can train and supervise others.

Advanced

An aspect of Practice where you can lead teams, train others and can act decisively from experience and a very high knowledge base.

Competencies	Developing	Functional	Proficient	Advanced
PERSONAL COMMITMENT				
Deal with ethical issues		●		
Practise competently		●		
Responsibility for engineering activities		●		
OBLIGATION TO COMMUNITY				
Develop safe and sustainable solutions	●			

Competencies	Developing	Functional	Proficient	Advanced
Engage with the relevant community and stakeholders				
Identify, assess and manage risks				
Meet legal and regulatory requirements				
VALUE IN WORKPLACE				
Communication				
Performance				
Taking action				
Judgement				
TECHNICAL PROFICIENCY - Information, Telecommunications and Electronics Engineering				
Advanced engineering knowledge				
Local engineering knowledge				
Problem analysis				
Creativity and innovation				
Evaluation				

Good Results. The Chartered level is Functional or above in all Elements of Competency. If any are marked as Developing, we recommend you pursue some further development in these Competencies, however we think you should proceed to the Industry Review. The Industry Review will allow you to give further details of your Chartered competency and have this rated by a suitable Reviewer. Their ratings may be higher than what you have given yourself and may indicate your current suitability for Chartered.

You should also get ready for your Chartered application by:

- Compiling an experience portfolio of documents such as reports, email correspondence, presentations etc - anything you think shows your competence against the Chartered Standards.
- Get your Continuing Professional Development Log up to scratch - a reminder you will need to show 150 hours of CPD over the past 3 years including at least 50 hours of technical CPD in each of the Areas of Practice you are seeking for Chartered.
- Look through our website to find out how we can support your journey to Chartered - Engineers Australia offers lots of events, professional development and networking opportunities.
- Look at the Engineering Education Australia (EEA) Formal Training matrix to see what training you can participate in that will develop your skills specifically against the Chartered competencies: http://eeaust.com.au/chartered-skills-matrix