



## "Professional Certificate of Competence in Hydrogen Energy" at the Engineering Institute of Technology, Australia.



**Engineering Institute of Technology (EIT)**, as a leading educational institution specialising in engineering, plays a key role in promoting advanced technologies, including hydrogen-related technologies. Nowadays, in the face of changing energy needs and pressure to reduce emissions, hydrogen is gaining prominence as a promising source of renewable energy. The EIT not only plays an important role in educating professionals in the field of hydrogen engineering, but also actively supports the development and implementation of best practices in this field.

**Engineering Institute of Technology** is headquartered in Perth, Australia. This institution was founded in 2008 by Dr. Steve Mackay, an engineer and educator who wanted to create a specialized institute offering hands-on engineering programs based on hands-on experience and real-world skills that are needed in industry. Initially, the institute focused on providing training courses for engineers and technicians. Over time, the educational offerings expanded to include full academic programs, including diplomas, bachelor's, and master's degrees.

Although the EIT is headquartered in Australia, the institution offers distance learning programmes, which allows students from all over the world to attend its courses. The EIT has been accredited by Australian and international organisations, attesting to the quality and standards of teaching. The institute is recognized as an innovative educational organization that applies the latest technologies such as remote labs and simulations to provide a hands-on learning experience.

The Engineering Institute of Technology is therefore an internationally recognized institute that actively collaborates with industry and academia to deliver up-to-date and practically-oriented educational programs in the field of engineering and technology.



**The "Professional Certificate of Competence in Hydrogen Energy – Production, Delivery, Storage, and Use"** offered by the EIT is a comprehensive training programme that focuses on key aspects of hydrogen production, supply, storage and use. This course has been designed for engineers, technicians, project managers and all professionals interested in the hydrogen industry who want to expand their knowledge and skills in this fast-growing sector. The course guides the participant through the ins and outs of the hydrogen sector, allows them to understand the processes related to hydrogen production, storage, distribution and energy applications. Thanks to this initiative, participants gain not only theoretical knowledge, but also practical skills needed to work in the hydrogen industry.

The course consists of 12 modules. Initially, participants gain knowledge of the basic principles and concepts related to the production, storage and use of hydrogen energy. The course discusses in detail various aspects of hydrogen technology, ranging from the properties of hydrogen itself, through production and storage methods, to hydrogen applications and infrastructure. One of the key elements of this course is its practical nature, which enables participants to acquire the specific skills and knowledge necessary to work in the hydrogen industry. Through numerous case studies and interaction with industry experts, participants have the chance to understand both the challenges and opportunities associated with the use of hydrogen energy.



**Throughout the course**, participants have interactive meetings with lecturers and industry experts, allowing participants to gain the latest information and practical skills. The course lasts 3 months, meetings are held online, every two weeks and last about 90 minutes. A number of materials are self-directed by the participant, thus offering flexibility of participation. The course allows you to learn online at a convenient time and place, which is especially important for full-time professionals.

**In order to receive** a certificate of completion of the course, participants must be present at least every second online seminar (attendance at least 65%). In addition, students must score at least 60% of their assignments. In addition, it is required to score 100% of the points on the quizzes that are available during the course elearning modules. If a student does not receive the required number of points, they will have the option to resubmit the work to obtain the required number of points. Receiving the final certificate confirms the acquired knowledge and skills, which can be a valuable asset on the job market.

In conclusion, this professional course is a great opportunity for engineers and professionals interested in the hydrogen industry. The most important things in the program are:



**Focus on practical skills** – the course is designed to provide skills that can be directly applied to professional work.



**Flexibility of learning** – online courses allow participants from all over the world to have access to education without having to relocate or give up their current job responsibilities.



**Experienced staff** - lecturers are mainly practitioners from the industry, who can provide participants with up-to-date knowledge and experience from market realities.



**Support for students** – the EIT is known for its good support for its participants, offering access to learning materials, online labs and opportunities to interact with lecturers and other participants, allowing for a wide exchange of experiences.

Completing the course and earning the certificate will allow graduates to validate their knowledge and skills, opening the door to new career opportunities in the growing hydrogen sector.

## Bibliography:

<https://www.eit.edu.au/courses/professional-certificate-of-competency-in-hydrogen-energy-production-delivery-storage-and-use/>

<https://www.eit.edu.au/why-eit/>

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