

Victorian Hydrogen Hub (VH2)

Hydrogen Skills Roadmap



Education
and Training



ARENA2036

Acknowledgement of Country

We respectfully acknowledge the Wurundjeri People of the Kulin Nation, who are the Traditional Owners of the land on which Swinburne's Australian campuses are located in Melbourne's east and outer-east, and pay our respect to their Elders past, present and emerging.

We are honoured to recognise our connection to Wurundjeri Country, history, culture, and spirituality through these locations, and strive to ensure that we operate in a manner that respects and honours the Elders and Ancestors of these lands.

We also respectfully acknowledge Swinburne's Aboriginal and Torres Strait Islander staff, students, alumni, partners and visitors.

We also acknowledge and respect the Traditional Owners of lands across Australia, their Elders, Ancestors, cultures, and heritage, and recognise the continuing sovereignties of all Aboriginal and Torres Strait Islander Nations.



VH2 – Overview

- Partnership with CSIRO and ARENA2036 in Germany
- Demonstration Hydrogen Refuelling Station with H2 Production + Storage in Clayton
- Industry Led R+D focusing on implementation challenges for the hydrogen sector
- Hydrogen Readiness Program for Industry
- Hydrogen Ecosystem Engagement workshops and activities
- Skills Roadmap



Developing a Skills Roadmap



INDUSTRY ENGAGED, INFORMED, ENABLED

There is already a lot happening across Australia in the skills development space

We want to complement and connect these activities

We want to hear voices from across the hydrogen ecosystem

Where are the 1st big needs for skills going to be?

Retraining/Upskilling of existing workforces with current employers

Gas and coal industry

Energy generators and suppliers

Ports and harbors

Automotive

Retraining/Upskilling of new workforce

New skills identification

Digitalization and Data systems

Certification systems

Maintenance of hydrogen equipment





GLOBALLY CONNECTED, INFORMED, PARTNERED

This is a global industry – we need skills programs that keep up with global standards

Development of skills portfolios for industries that don't yet exist in Australia

Build programs that attract new global partners to Australia or enable delivery internationally

WHAT ABOUT THE EXISTING TRAINING PACKAGES?

- The hydrogen sector will touch on many of the existing training packages
- There is already work underway to understand the impact/opportunity for hydrogen
- They are part of the ecosystem
- They will take time to develop and can take time to change
- Many people need upskilling not the whole package



Swinburne's Advanced Degree of Applied Technologies and Industry 4.0

- Developed through extensive industry consultation in order to meet needs of industry.
- Focus on skills and tools required for future workforce participation.
- Combines the best of university and vocational learning models to improve Science, Technology, Engineering and Math (STEM) skills of technically minded participants.
- Students will gain cutting-edge technical engineering and information technology skills,
- Course will focus on the end-to-end digitalisation of all physical assets and integration into digital ecosystems
- Designed as an engineering 'higher apprenticeship' model,
- Course design allows for a range of pedagogical approaches, including a mix of on-campus, workplace-based and e-learning and has the potential for international experiences in the final project.



Join us and contribute
to the completing the
puzzle

- **Fiona Knowles**

VH₂ Skills Roadmap Team Leader

fknowles@swin.edu.au

- **Sally McArthur**

VH₂ Research Leader

smcarthur@swin.edu.au

- **Gordon Chakaodza**

VH₂ Director

gchakaodza@swin.edu.au



