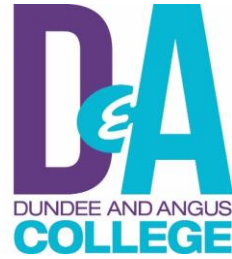




**MICHELIN SCOTLAND
INNOVATION PARC**
SKILLS ACADEMY



Supporting H2 Scale Up Webinar

Jim Brown

Director, ESP

&

Strategic Projects Director,
Dundee and Angus College



Scottish Funding Council
Promoting further and higher education

*Scotland's colleges – delivering skills for the
energy, engineering and construction sectors*



Scottish Government Position

Hydrogen plays an important part in the transition to net zero in line with Scottish Governments target for 2045.

We set out our vision for Scotland to become a leading hydrogen nation in the production of reliable, competitive, sustainable hydrogen, securing Scotland's future as a centre of international excellence as we establish the innovation, skills and supply chain to underpin our energy transition.

We are promoting the use of ultra-low emission vehicles (ULEVs) and aim to phase out the need for new petrol and diesel cars and vans by 2032, ahead of the UK Government's 2040 target

Policies – align and support

1. Climate Change Plan
2. Energy Strategy
3. Scottish Government Hydrogen Policy Statement
4. Climate Emergency Skills Action Plan
5. STEM Strategy

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Hydrogen Training Network

Hydrogen Training Network

Through our discussions with Scottish Government, Transport Scotland, industry and government agencies, ESP identified the need to develop the capability and capacity of Scotland's colleges to address the expected significant demand for hydrogen skills.

ESP's Hydrogen Training Network was established in September 2019 to address the expected demand for hydrogen skills. Initially it is based around 8 colleges where hydrogen projects exist and with some expertise already in place.

MAP OF SCOTLAND'S HYDROGEN TRAINING NETWORK



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Building Capability and Capacity

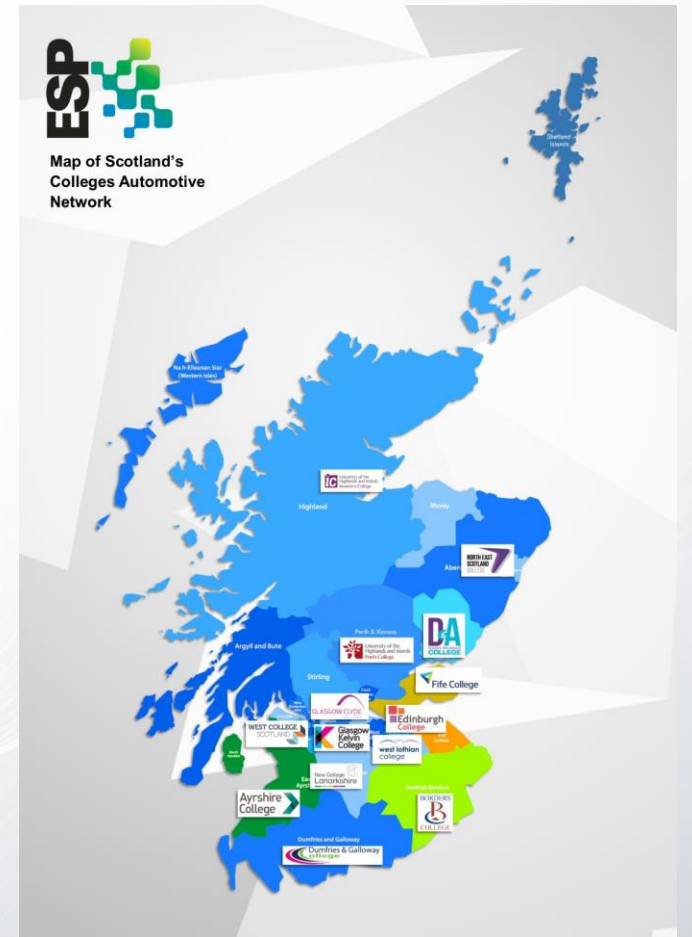
Training Networks

- Hydrogen Training Network
- Wind Training Network
- Automotive Training Network
- Heavy Duty Vehicle Training Network



Activity

- Industry Awareness
- College Staff CPD
- Curriculum
- Capital Equipment
- Shared Resources



Partners –

- Scottish Government
- Transport Scotland
- Energy Savings Trust
- Scottish Funding Council
- Scottish Hydrogen and Fuel Cell Association
- IMI

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Curriculum Development

Online Hydrogen Awareness Course

ESP, in partnership with SGN, Orkney College UHI and Dundee and Angus College, have developed an online awareness course in Hydrogen aimed at a broad audience with the purpose of introducing a future career in hydrogen.

Areas covered include;

- Introduction to hydrogen
- types of hydrogen
- health & safety
- future careers options in the hydrogen industry.

Colleges will use the course with engineering and science students and school groups. Industry plans to use the course as an education tool for gas network customers.

ESP will continue to develop the capability and capacity of the Hydrogen Training Network through learning journeys, webinars, sharing of existing college expertise and speaking with industry experts and technology partners.

Professional Development Award (PDA) Hydrogen - An Introduction for Technicians

ESP is providing support to Lews Castle College UHI in the development of curriculum in Hydrogen at SCQF levels 6,7,8.

Through ESP coordination with industry and consultation through Transport Scotland, SHFCA and SGN there became a recognised need to provide technician-level training in hydrogen technologies. This curriculum will be designed to reflect the current needs of the hydrogen sector.

ESP will continue to collaborate with the training network to develop teaching and learning materials for curriculum in hydrogen and investigate online delivery.

Operational safety course

Under Development

Hydrogen Transport online Course

Under Development

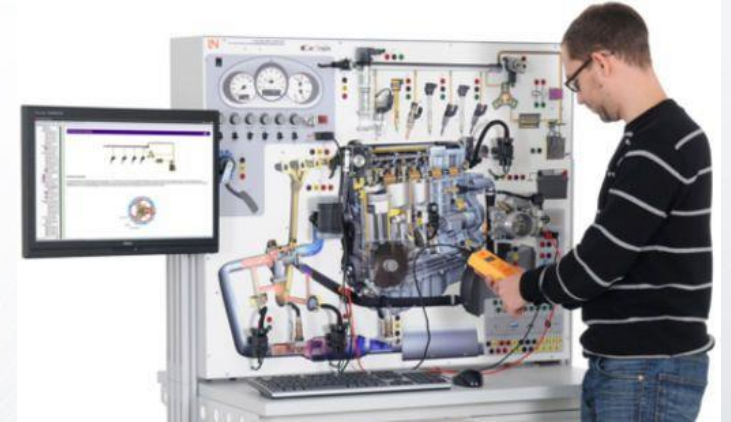
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Hydrogen Shared Resources

Lucas-Nülle Training equipment

- UniTrain
- CarTrain
- TruckTrain



Online Hydrogen Awareness Course

Under development

- Operational safety course
- Hydrogen transport online course
- Staff CPD
- Building international links for collaboration

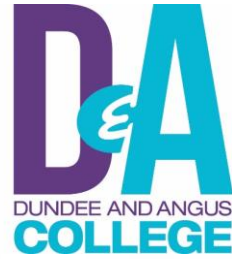


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Thank You



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