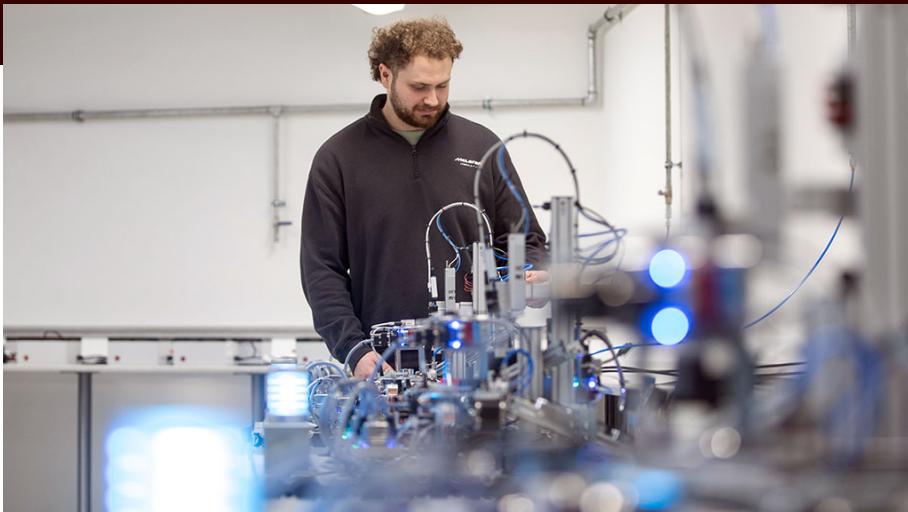


Skills Bootcamp - Principles of Carbon Capture & Storage



Course Overview

This Skills Bootcamp has been commissioned by York and North Yorkshire Combined Authority, using funding from government.

Short course aimed at employed individuals working in engineering, manufacturing, energy, waste management of any sector looking to reduce CO2 emissions and help the UK meet net-zero targets. This first-of-its-kind course in Carbon Capture and Storage is designed to provide learners with the higher technical skills and knowledge to operate climate-saving technology.

Benefits of studying Principles of Carbon Capture:

- Understand what Carbon Capture is and how it can be applied in industry
- See the Carbon Capture process happening in real time using our gas absorption training rig
- Proof of concept - scope whether Carbon Capture technology could be applied in your business

Benefits of using Carbon Capture in the industry:

- Significantly reduce emissions
- Produce a commodity (CO2) with a commercial value
- Get ahead of future net-zero regulations

What You Will Study

Delivered within Selby College's brand-new Carbon Capture and Storage centre and its Institute of Technology laboratory, learners will have the opportunity to use cutting edge technology and training rigs.

The course will be delivered one day a week over five weeks in the classroom, with a mixture of theory, practical, simulations, and online immersive learning.

What is Carbon Capture?

Carbon Capture is the process of removing CO2 from an emission source. A common method for achieving this is to direct the emissions into a Carbon Capture plant which uses a solvent solution to remove CO2, which is then stored. This is called post-combustion carbon capture using amine solutions.

At Selby College, we have a gas absorption rig which mimics this process. We use water as the solvent so that once the carbon is captured from emissions, we are left with just

START DATE	LEVEL
TBC	Level 3
STUDY MODE	DURATION
Part-time	60 Guided Learning Hours
LOCATION	Selby College



For further information about this course, including Entry Requirements, Assessments and Further Study, scan the QR code.

Need More Information?

For additional course information please contact the Course Information Team on **01924 789111** or email courseinfo@heartofyorkshire.ac.uk.

To learn more about Selby College, our facilities and how we can support you please visit our website www.heartofyorkshire.ac.uk.

Quick Links



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water and CO₂. By using a rig which mimics real-world Carbon Capture methods, learners are able to generate data on the Carbon Capture process and scope whether a plant could be implemented in their particular industry or business.

What will the course cover?

- Post-combustion carbon capture
- Thermo-dynamics
- The chemistry of carbon capture
- Absorption
- Heat recovery
- Heat exchangers and compression
- Environmental impact
- Plus much more...

Attendance Expectations

Each Monday 9am-5pm for 5 weeks. Plus online study.

How You Will Be Assessed

You will create a presentation in small groups on carbon capture and storage and deliver this to the rest of the class.

Entry Requirements

- 19+
- Work or live in York and North Yorkshire region

Fee Information

Free for learners who self-refer.

Employers who refer staff will have to pay a contribution - £320pp if you are an SME (fewer than 250 employees) and £960pp for large businesses (250+ employees).

Further Study

Completion can result in increased responsibilities within an existing role or open up opportunities for a new role. Employers enrolling their employees onto the course will be able to implement Carbon Capture projects within their business or adapt the technology and learning for other applications.