

Case Study

Cornwall College



The Client

Cornwall College | Green Construction Skills Academy

Cornwall College is investing in the future of green construction through the Construction Skills Hub Project, funded by the UK Government through the UK Shared Prosperity Fund, lead by Cornwall Council. Two of their campuses now offer green construction training at their Green Construction Skills Academies, at Camborne and St Austell campus.

The college is expanding its curriculum to include hands-on training in low-carbon technologies. The goal is to prepare students and apprentices for green careers in plumbing, heating, electrical systems, and environmental technologies, sectors that are growing fast as the UK moves towards net zero.

To support this transition, Quantum Training installed Low Carbon Training Bays, helping Cornwall College equip its learners with practical skills linked to regional green skills demand.



The Engagement

Installing Training Bays for Low-Carbon Technologies

Cornwall College had some low carbon equipment from many years ago, that was 'old and outdated'. They partnered with Quantum to revamp practical spaces for training in low carbon heating systems, which included the latest technology from industry. Cornwall's Principal set Quantum the task to "improve the quality of the structure", and to ensure there was a "WOW" factor for their new Green Skills Facility. The installations are part of the college's wider strategy to promote sustainability and renewable energy education.

Working closely with the Project Manager and delivery teams, Quantum assessed the college's available space, project budget, and curriculum goals, designing a bespoke solution that supports multiple learner pathways, from Level 2 to apprenticeships and upskilling courses.

Low-Carbon Technologies Installed at St Austell

Two Air Source Heat Pump (ASHP) Training Bays

Simulating real-world installations, these bays allow students to learn system design, installation, performance assessment, and maintenance of ASHP systems, one of the key technologies in the UK's renewable heating strategy.



Two Solar Thermal Training Bays

These bays support practical learning in hot water systems powered by the sun. Learners are introduced to key principles of solar thermal systems, including setup, system integration, and performance testing. These are all essential skills for plumbing and heating apprentices on the environmental pathway



Two Electrical Ecosystem Training Bays

Fitted with solar PV, battery storage, and EV charging systems, these bays allow learners to understand how different renewable technologies interact. These setups reflect real-world installations and prepare students for careers in sustainable electrical and building services.



Two Ground Source Heat Pump Training Bays

Designed to teach the complete Ground Source Heat Pump system journey, from site planning to installation and operation. The GSHP bays support learners in understanding this vital technology for sustainable heating solutions.



Low-Carbon Technologies Installed at Camborne

Two Solar Thermal Training Bays

These bays support practical learning in hot water systems powered by the sun. Learners are introduced to key principles of solar thermal systems, including setup, system integration, and performance testing. These are all essential skills for plumbing and heating apprentices on the environmental pathway.



Two Electrical Ecosystem Training Bays

Fitted with solar PV, battery storage, and EV charging systems, these bays allow learners to understand how different renewable technologies interact. These setups reflect real-world installations and prepare students for careers in sustainable electrical and building services.



The Impact

Supporting Green Skills Development Across Cornwall

These training bays will form the core of Cornwall College's Green Construction Skills Academies, supporting a wide range of courses and apprenticeships, including the new Low Carbon Technician Apprenticeship and Level 3 Upskill courses for industry professionals.

The college has launched other workshops in Green Skills for Pre – 16s, to promote exciting opportunities in sustainable construction and which will allow for 14–16 year olds to gain real-world skills through hands-on projects and workshops designed just for them.



The facilities will also be used for outreach, giving local Year 10 students a chance to see renewable technologies in action and explore career opportunities in the green sector.

By having 2x dedicated campuses to Green Construction, Cornwall College is creating a region-wide training offer that will support learners, employers, and the wider community.



Client Testimonials

Jon Ninnes, Project Manager at Cornwall College, shared his experience working with Quantum:

“From the very first meeting, the team at Quantum have gone the extra mile to provide us with bespoke, purpose-built Green Technology training equipment, to accommodate both our available space and finite project funding.

Communication has been excellent throughout, from design to installation and training. Our staff received Train the Trainer sessions, and Quantum also provided additional teaching materials to support the delivery of our new Level 2 qualification.”



“I can’t speak highly enough about our experience with Quantum, and I’m very much looking forward to the next phase, which includes installation at a second campus with double the equipment.”

“These installations are the heart of our two new Green Technologies Hubs. They’ll support apprenticeships, upskill courses, and school outreach programmes, helping learners at all levels explore careers in renewable technologies across Cornwall.”





Building the Green Workforce of Tomorrow

At Quantum, we are driven to address the UK's Green Skills shortage by providing world-class training solutions in low carbon technologies, sustainable building practices and retrofitting.



If your institution is ready to invest in building the UK's green workforce, we're ready to help.

