



HISTORY

First established as early as

184

As Mechanics Institute, with Alfred Wallace a leading figure.

The College was officially opened

28 September

with only 5 teaching rooms- physics and chemistry laboratories, drawing office and 2 classrooms.

£6,100

Building cost, of which £5,500 was a grant from the Miners Welfare fund.

First year total of **797** students, mixture of full-time **50**, part-time **6** and evening students **741**.

Early relationships with industry started in 1945, with National Oil, Metal Box and the Steel Company of Wales, with the former equipping a new petroleum laboratory.

1843
Known as the Mechanics' Institute

1931
Official Opening of Neath Mining and Technical Institute

1949
Recognised as Neath Technical College

1982
Neath College Formed

1985
Port Talbot Tertiary College Established

1999
Merger with Afan College, creating Neath Port Talbot College

2013
Merger with Coleg Powys creating NPTC Group of Colleges

NPTC GROUP OF COLLEGES

- NPTC Group now has 9 campuses across Wales, including the Academy of sport at Llandarcy
- We operate 2 farms, a swimming pool, and bar/restaurant at Llandarcy
- We have a language school in Portsmouth and various international partnerships
- We also have a highly rated work based learning consortium Pathways, which operates across Wales
- We have nearly 20,000 students and over one of the widest range of courses in Wales



About Specific IKC

Functional Coatings



Buildings as Power Stations

Applied R&D ➤ Proof of Concept ➤ Scale Up ➤ System Integration ➤ Building Integration ➤ Demonstration



Science & Innovation Campus

➤ Baglan Bay Innovation Centre

➤ PMRC Pilot Manufacturing Research Centre

➤ SHED Solar Heat Energy Demonstrator

➤ Active Classroom



Colorcoat Prisma® Floor
Tata Steel's Colorcoat Prisma® pre-finished steel has been used as the substrate for the heated floor system.

Steel Framing
Steel was used to construct the Active Classroom superstructure.

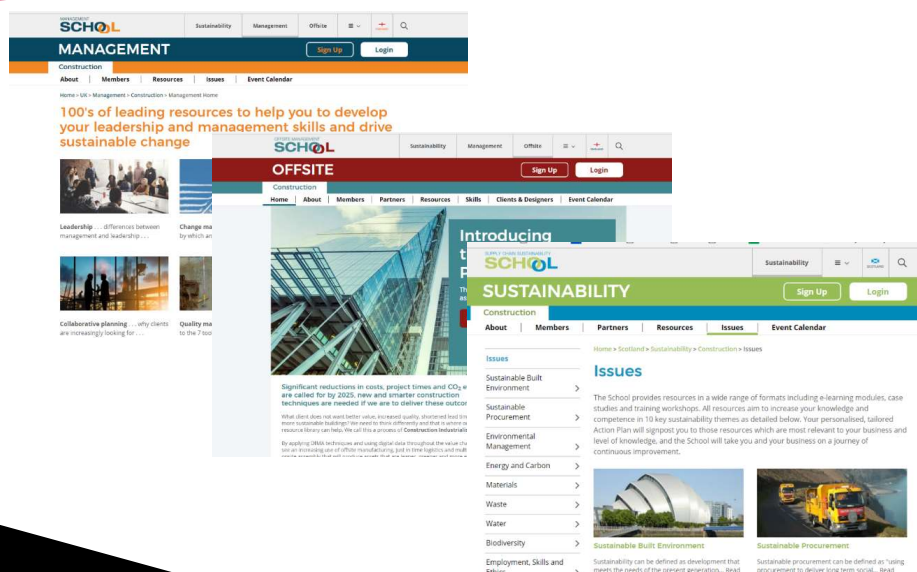
Steel Roof
The Colorcoat Urban® standing seam roof, manufactured by Tata Steel, included building integrated photovoltaics.

Coretinium®
Coretinium® from Tata Steel was used to construct the shell of the classroom ready for the cladding to be added.

Cladding Colours
Brand new Colorcoat® colours from Tata Steel were used for the external skin of the Active Classroom's walls.

Transpired Solar Collector (TSC)
Tata Steel's Colorcoat Renew SC® perforated collector was fitted onto the building skin. Tiny holes in the steel allow warm air to be drawn into the building to provide heat.

Three learning areas to help you...



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Waste
Water
Biodiversity
Employment, Skills and Culture

Sustainable Built Environment
The School provides resources in a wide range of formats including e-learning modules, case studies and training workshops. All resources aim to increase your knowledge and competence in 10 key sustainability themes as detailed below. Your personalised, tailored Action Plan will signpost you to those resources which are most relevant to your business and level of knowledge, and the School will take you and your business on a journey of continuous improvement.

Sustainable Procurement
Sustainable procurement can be defined as 'using procurement to deliver social, environmental and economic benefits'.

Title Partnerships



The who, what and why

Developed by the industry for the industry

- The Supply Chain School aims to build a best in class supply chain for the UK 'construction' sector that will help to enable the industry to deliver its 2025 objectives - 33% Lower costs, 50% faster, 50% lower emissions, 50% export
- Led by private sector Partners – free for the supply chain
- We work to improve the skills and knowledge of the construction sector in the area of sustainability
- The School provides an online learning platform, training programme and comprehensive resource library
- Meet and collaborate with key partners through LG's: Infrastructure, Construction, Offsite, Homes, FM, Plant, Labour, Wales & Scotland

The School in numbers:

- | | |
|---------------------------|-----------------------------|
| ▪ 23,000 registered users | ▪ 87,000 resources accessed |
| ▪ 65 Partners | ▪ 13,000 training delegates |

RESF Actions: next few months to few years:

Working with interested parties to update RE competency criteria

Take forward a plan to break the training into modules of:

- Survey and Design
- Install and Commission
- Specialist skills e.g. solar roofing, ground collectors heat/smart metering, integration, control systems, storage, thermal imaging

RESF, MCS CC and other stakeholders to develop updated learning outcomes and assessment criteria

Update training courses and assessments to the updated criteria

As appropriate, improve competencies of trainers & assessors (inc. CB assessors)

Work across the UK including the devolved administrations to make sure the UK improves its domestic RE skills delivery

To encourage the inclusion of RE skills in Building Services qualifications and courses with industry, employers, apprentices, etc. by promoting the importance of domestic RE skills across all stakeholders including Governments and employers.



Entitled Development and Learning Outcomes

Approach - NPTC Group The 5 Cs

- Co-operative
- Collaborative
- Creative
- Challenging
- Collective

WHY?

- Given the CSN figures from CITB showing strong growth in Wales and other reports from notably Arcadis Talent School, which delivers some sobering numbers for the sector to meet
- We need to plan and develop training more effectively and timely-listening and not telling
- Looking at the need, development and skill requirements of new technologies
- We need to build on innovative approaches and deliver these with the sector effectively.

WHAT NEXT?

- Approaches and partnerships are working, but the landscape is changing
- An opportunity to develop new approaches and programmes, working together with industry and partners. Wales can be the hub of innovative training
- Key focus on apprenticeships, with a need to develop higher models, with a need to cover emerging and cross sector skills. Engagement and consultation models are essential
- Early engagement of ALL is essential with an urgency to put the models in place, when needed. Communication, partnership and collaboration are key from all involved.

