



Association of Civil Engineering Departments

Field Courses and “Hands-On” Learning



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE

- Largest provider of specialist construction training in Europe
- Deliver training to circa 30,000 learners per annum
- Over 5,000 companies
- Over 26,000 apprentices trained to date



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE

- NCC delivers training to learners in the following areas:
- Plant Operations & Mechanics - Scaffolding & Access - General Construction - Surveying & Setting Out – Sustainability - Health & Safety – Leadership - Management and Supervisory – Construction Site Awareness (including Graduate Programmes)



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE

- Also provide Assessment and Verification services
- Seven centres across the UK
- Glasgow, Birmingham - Erith (Kent) - Bircham Newton (Norfolk) - Ashbourne (Derbyshire) - Newham & Beckton (East London)
- And a further sixty other locations throughout the UK delivering classroom based courses



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES - THE VISION

- To deliver specialist construction training in Wales
- In an integrated and holistic manner - that will meet the future needs of the construction industry in Wales and fully exploit new technologies to the benefit of learners, employers and clients



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES

- Driven through ConstructionSkills Network data
- Construction Employment forecast to rise by 4.6% in 2013
- 2330 new workers required to join the industry each year
- Limited training provision in Wales for specialist occupations
- Delivery of skills over and above norm provided across the sector



National Construction College

The training division of  constructionskills

NATIONAL CONSTRUCTION COLLEGE WALES – Rationale behind proposal

- ConstructionSkills Wales – a strong advocate
- National Construction College has identified opportunities in South Wales and satellite links with North Wales
- Gap in coverage
- Project density
- Employer network
- Learner density



National Construction College

The training division of  constructionskills

NATIONAL CONSTRUCTION COLLEGE WALES – Rationale behind proposal

- Keeping the skills in Wales
- Responding to project needs
- Opportunity led by SectorSkills Council
- Additional benefits to improve the whole learning network with no threat to existing provision
- Raise the profile of construction
- Meet the demands of the modern construction industry



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES – Rationale behind proposal

- Delivery of world class solutions and innovative methods of training
- Focus on sustainable construction



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES – What could be delivered

- What could be delivered?
- Plant Operations (minimum of three acres)
- Scaffolding & Access (10 m headroom, 10m x 7m per gang)
- General Construction (4200 sq ft) (Based on NCC Scotland)
- Conservation & Heritage
- Constructionarium (6 Hectare) (Based on NCC East)



National Construction College

The training division of



NATIONAL CONSTRUCTION COLLEGE WALES – What could be delivered

- Central Hub for training in new technologies
- Sustainability
- Renewable Energy
- Waste Management
- Innovation / Modern Methods
- Low Carbon



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES – What could be delivered

- Central Hub for CPD Development
- Leadership, Management & Supervisory
- Health & Safety
- Training for adults, apprentices, graduates and NEET's



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES – Working in partnership

- Bringing together academic and vocational learning
- Working with FE, HE and work based learning providers to develop and deliver courses
- Working with NSAfC to promote and support construction training



National Construction College

The training division of  construction skills

NATIONAL CONSTRUCTION COLLEGE WALES – Working in partnership

- Working with employers and employer led groups
- Provision of enhanced learner network
- Funding bodies



National Construction College

The training division of  construction skills

Constructionarium

- Provides a taster of life on-site for university engineering students
- Work on scaled down versions of bridges, buildings, dams and civil engineering projects.
- Consists of 17 work areas over six hectares including a scaled down river, lake, stabilised flatlands, mountainous terrain, dodgy areas of porous strata and high ground water



National Construction College

The training division of  construction skills

Constructionarium

- Basic model involves University, Contractor and Consultant working in partnership
- Collaboration between academia and industry
- Designed to create the appearance and atmosphere of working on a real large scale civil engineering project
- Addresses the current shortfall in practical construction and design expertise among graduates



National Construction College

The training division of  construction skills

Constructionarium

- Links the theory and reality of construction
- Puts into practice what students have learnt during their studies
- Students assessed on the final day in terms of budgetary control, methodology and timely completion
- Six day programme



National Construction College

The training division of  construction skills

Constructionarium

- 762 attendees during 2009
- www.constructionarium.co.uk
- Strong support in Wales from ICE, Cardiff University and others
- Thank you



National Construction College

The training division of  construction skills