

RENEWABLE ENERGY APPLICATIONS

DELIVERED BY: South West College

LOCATION: TBC

RATIONALE:

Renewable energy and energy efficiency are increasingly significant when considering sustainable development. This module provides an introduction to the study of energy production and use, with an emphasis on clean energy, energy efficiency and renewables.

COURSE CONTENT:

This course will enable beneficiaries to understand energy use and energy efficiency. The economic and environmental aspects of energy use, both renewable and non-renewable will also be considered, as will business applications of renewable energies and their contribution to a sustainable future.

Learning Outcomes:

On completion of the module, students will be able to:

1. Understand the Basics of Energy Use.
2. Understand Renewable Energy Applications and Energy Efficiency.
3. Assess the Environmental and Social impacts of renewable and non-renewable energy use.
4. Understand the economics of renewable energy applications

RENEWABLE ENERGY APPLICATIONS

Skills:

On completion of the course, participants will be able to:

1. Use energy related terms and definitions to evaluate different forms of energy and energy sources
2. Evaluate renewable energy applications and energy efficiency
3. Evaluate the economics of energy consumption and reflect on the financing of renewable technology projects
4. Apply ICT skills
5. Manage own time and work schedules

Other Information:

The Renewable Energy Application course has been accredited by OCNNI accreditation and has been submitted for City & Guilds Accreditation at Level 3.

For Further Information, please contact:
Cavan Innovation & Technology Centre, Dublin Road, Cavan.
T: +353 49 43 77277; F+353 49 43 77250;
E: HATCHadmissions@cavanitc.ie; W: www.cavanitc.ie/HATCH

COURSE TIMETABLE – RENEWABLE ENERGY APPLICATIONS

EVENT	Location	DATE
		Open for Recruitment January 2014

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Computer Aided Design (BIM) - NOCN Level 4

DELIVERED BY: South West College

LOCATION: Cavan ITC and South West College, Omagh/Enniskillen

RATIONALE:

Building Information Modelling (BIM) is becoming an essential component of public procurement for design teams and in the on-going management and use of our built environment. This course will take the learner through the BIM environment in Autodesk Revit. Prior use of CAD is not required but the learner must have an intermediate level knowledge of IT. Learners can download a 2 year free trial version of Revit with student i.d.

CONTENT:

Learning Outcomes:

On completion of the module, students will be able to:

1. Understand how a Revit project is structured.
2. Understand how Revit creates objects and how to work in 3D-space with Levels, Grids and Workplanes.
3. Use detailing tools, annotation tools and detailing components.
4. Understand the relationship between the building model and 2D detailing
5. Produce drawings to presentation standard.

Computer Aided Design (BIM) - NOCN Level 4

Skills:

Navigate the Revit interface, create custom primary building elements e.g. walls, floors and roofs, structure. Use and modify families to create secondary building elements e.g. windows, doors, stairs. Learn file management, generate specification, add additional information to building elements (specification, quantities information). Extract information from the building model (schedules and material take-offs). Produce 2D drawings from the BIM, produce presentation standard drawings, produced on plotters. We will aim to produce a rapid prototype model too.

Other Information:

This course is accredited by UK National Open College Network (NOCN) at Level 4.

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COURSE TIMETABLE- Computer Aided Design (BIM) - NOCN

Level 4

	Commencing January 2014	
6 hours per day, 9am start		

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Level 4 Digital Surveying

DELIVERED BY: South West College

LOCATION: Cavan ITC and South West College, Enniskillen

RATIONALE:

The skilling/upskilling of construction industry personnel to meet the growing demands for the production of accurate and flexible digital surveying and setting out practices.

CONTENT:

Learning Outcomes:

On completion of the module, students will be able to:

1. Understand surveying theory
2. Understand surveying techniques.
3. Understand surveying processes.
4. Produce a control and topographic survey.
5. Produce co-ordinated setting out drawings.

Level 4 Digital Surveying

Skills:

Production of survey in group work, produce a topographic survey using at least two control points, download and process raw data and produce a finished contoured working drawing with longitudinal & cross-sections in digital format.

Extract setting out information from the survey and transfer it into a total station for setting out.

This course will include use of the following equipment: Digital theodolites, Total station, interface software, CAD software,

Other Information:

This course is accredited by UK National Open College Network (NOCN) at Level 4.

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Course Timetable- Level 4 Digital Surveying

EVENT	Location	DATE
Week 1 24 th January 2014	Skillscentre, Enniskillen	9:30am to 3:30pm
Week 2 31 st January 2014	Cavan	9:30am to 3:30pm
Week 3 7 th February 2014	Skillscentre, Enniskillen	9:30am to 3:30pm
Week 4 14 th February 2014	Cavan	9:30am to 3:30pm
Week 5 21 st February 2014	Skillscentre, Enniskillen	9:30am to 3:30pm
Week 6 28 th February 2014	Cavan	9:30am to 3:30pm
Week 7 7 th March 2014	Skillscentre, Enniskillen	9:30am to 3:30pm
Week 8 14 th March 2014	Cavan	9:30am to 3:30pm

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