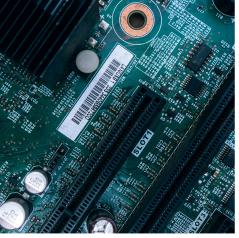


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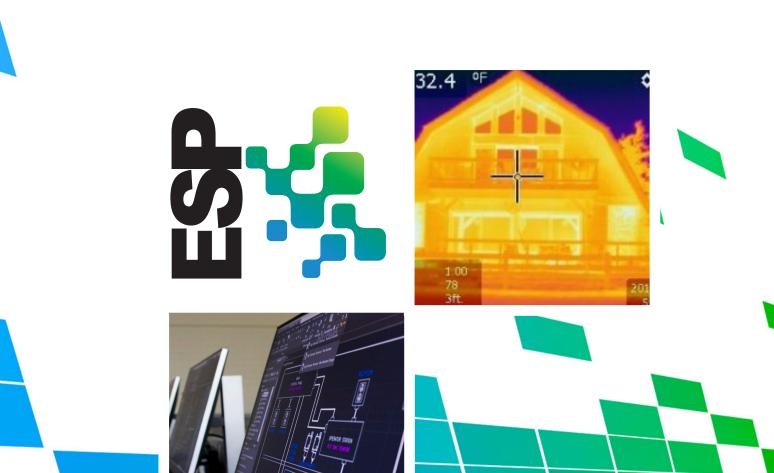


TEACHING MATERIALS Register

Materials Title	Developed by	Units	Available
Engineering Mathematics	West College Scotland & Forth Valley College	Engineering Mathematics 1 (H7K0 33) Outcome 1 - Functions Outcome 2 - Logs and Exponentials Outcome 3 - Vectors and Complex Numbers Engineering Mathematics 2 (H7K1 34) Outcome 1 - Trig Functions Outcome 2 - Differentiation Outcome 3 - Integration Engineering Mathematics 3 (H7K2 34) Outcome 1 - Differentiation Outcome 2 - Integration Engineering Mathematics 4 (H7K3 35) Outcome 1 - Complex Numbers Outcome 2 - Matrices Outcome 3 - Taylor and MacLaurin Outcome 4 - First Order Differential Equations Engineering Mathematics 5 (H7K4 35) Outcome 1 - Second Order Linear Differential Equations Outcome 2 - Partial Differentiation Outcome 3 - Double Integration Techniques Outcome 4 - Laplace Transforms Outcome 5 - Eigenvalues and Eigenvectors	ESP members
Quality Management An Intro- duction	Glasgow Clyde College	Quality Management: An Introduction (DT8Y 34) Outcome 1 - Explain the fundamental principles of Quality Assurance and Quality Control Outcome 2 - Explain the stages to be met in the process of achieving ISO 9001 Outcome 3 - Select and apply quality improvement tools and techniques Outcome 4 - Total Quality Costs	ESP members
Certificate in Environmental Tech- nology Systems	Dundee College	Working Principles, Installation, Options and Regulatory Requirements for Micro Re- newable Technologies, Water Harvesting and Recycling Technologies (F8XJ 04) F8XJ 04 Working Principles Generic Assessment Install, Test, Commission and Handover Solar Thermal Hot Water Sys- tems (F8XK 04) Install, Test, Commission and Handover Solar Photovolta- ic Systems (F8XL 04) Install, Test, Commission and Handover Heat Pump Systems (F8XM 04)	ESP members
Diploma in Electrical Power Engineering - Wind Turbine Main- tenance (City & Guilds 2339- 44 Level 3)	Carnegie College	Health & safety in the power industry (650) Theory & background of wind turbines/energy (651) Mechanical theory & principles of wind turbine technology (652) Electrical theory & principles for wind turbine technology (653) Control & instrumentation theory & principles of wind turbine technolo- gy(654) Hydraulic theory & principles of wind turbine technology (655) Wind turbine systems technology (656)	ESP – Limited access
Green Deal		Certificate for Green Deal Assessors Certificate for Domestic Energy Assessors	ESP – Limited ac- cess via WeTrans- fer Updated 2014
Global Wind Organisation (GWO) - Basic Technical Training	Ayrshire College	Modules Electrical Hydraulic Mechanical	ESP members
Wind and Marine Training Network Resources	Orkney College UHI (2014)	Support Notes For Personal Safety & Social Responsibilities	ESP – Limited ac- cess via WeTransfer
RTN Blade Repair & Inspection	RTN	Awareness Basic	ESP – Limited ac- cess via WeTransfer
HN Energy Units	Stow College (Units) North Highland College UHI (Materials)	Energy Overview (H4J5 34) Outcome 1: Global Energy Trends Outcome 2: National Factors Relating to Energy Production, Consump- tion, Greenhouse Gas Emissions and Energy Security Outcome 3: Building and Transportation Outcome 4: Industrial Sized Power Plants Energy Technologies (H4J6 35) Outcome 1: Analyse the Technologies and Factors Associated with Tradi- tional Methods of Energy Production. Outcome 2: Analyse the Technologies and Factors Associated with Re- newable Methods of Energy Production Outcome 3: Describe the Technologies and Factors Associated with Emerging and/ or Less Common Methods of Energy Production	ESP – Energy Technolo- gies ESP members
Thermal Imaging	Edinburgh Napier University (2016)	Training in thermal analysis of buildings	ESP members
Sound insulation	Edinburgh Napier University (2016)	Sound insulation: design and construction for airborne and impact sound	ESP members

HND Electrical Engineering	NESCol FVC	DC3C34/02 Electrical Networks and Recongres DNAE34/02 Disit-1	ESP members
HND Electrical Engineering	West Lothian College, Dumfries & Galloway College	DG3G34\02 Electrical Networks and Resonance DN4E34\03 Digital Electronics DN4633\04 Analogue Electronics: An Introduction D75X34\36 Information Technology: Applications Software 1 DN4K35\04 Electrical Motor Drive Systems DN3T34\03 Electrical Systems in Potentially Explosive and Gas Hazard- ous Environments DN4F35 Electrical Installation Design DN3734\09 Fundamentals of Control Systems and Transducers A6AX 34 Project Management: An Intro DG5735\03 Transmission Lines and Complex Waves DN3X35\03 Electrical Electrical Energy in Buildings DG3D35\07 Business Awareness and Continuing Professional Develop- ment DN4M35 Electrical Standby Systems	
MOT Training Materials	Glasgow Clyde College (2017)	ESP DVSA NTTLV Presentation March 2017 Candidate check and details record MOT Student Handbook ESP Suggested Inspection Routine Not to be used in Practical Assess- ment VT8 MOT Practical Assessment Carrying out Brake Efficiency Calculations – Formula Required Practical Assessment covering the mandatory units	ESP members
Waste Awareness for Construction Students	Fife College (2017)	Waste Awareness Learning Materials Booklet Waste Awareness Teaching Presentation	ESP – Limited ac- cess via WeTransfer
Certificate in Electrical Power Engineering - Distribution and Transmission (Level 2) (2339 – 17)	Forth Valley College (2015)	Unit 660 Understanding Legislation in Power Industry Unit 661 Electrical Theory Unit 661 Mechanical Theory Unit 662 Electrical Networks, Plant and Apparatus	ESP – Limited ac- cess via WeTransfer
ELITE Energy Efficiency Aware- ness units	Ayrshire College (2018)	<ol> <li>Basic notions of ICT for exploring BIM</li> <li>The Basics of BIM approach</li> <li>Understanding of projects, communication and collaboration, conflict resolution and control</li> <li>Cost control and coordination &amp; management process</li> <li>BIM as a part of Lean in Construction</li> <li>Improving Energy Efficiency Awareness</li> </ol>	ESP members http://www.associ- azionenetelearning. it/login/index.php
CITB Construction Online Units	CITB	Plumbing (DM7E 10) Half Brick Walling (DM7G10) Site Carpentry Bench (DM7J) Decorative Painting (DM7K 10) Roof Tiling (DM7N 10) Plasterwork (DM7R 10) Electrical Installation (DM7T 10) Practical Copper Pipework (DM7W 10) Finishes using Waterborne Paints (DM7Y 10) Brickwork Techniques (DM81 10) Carpentry and Joinery Techniques (DM82 10) Bench Joinery (DX0J 10) Bench Joinery (DX0J 11) One Brick Walling (DX0L 11) Plumbing of Sanitary (DX0T 11) Decorative Painting Techniques (DX0R 11) Energy Efficiency (HD 70 46) Stonemasonry (FF33 10) Principles of Energy Efficiency (HD6Y 45)	ESP members Zipped SCORM Files for viewing online in Moodle
Hydrogen Awareness	SGN, Orkney College UHI and Dundee and Angus College (2020)	<ul> <li>Introduction to hydrogen</li> <li>types of hydrogen</li> <li>health &amp; safety</li> <li>future careers options in the hydrogen industry</li> </ul>	ESP members https://energyskills. dundeeandangus. ac.uk/
Offshore Wind Awareness tool	North East Scotland Col- lege and Dundee & Angus College (2020)	This online tool aims to give an overview of the installation, operation and associated work in relation to offshore wind farms.	ESP members https://rise. articulate.com/ share/1J15LTZ0X- BZVDWCkN0mjR- M8uKhFXLkvb#/

These ESP Teaching Materials are available to member colleges for use. If your college wishes to access these materials please contact ESP at <u>info@esp-scotland.ac.uk</u>







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