



VOCATIONAL TRAINING ON RENEWABLES AND ENERGY EFFICIENCY

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OVERVIEW

- “ MCASTs Role in BUILD-UP Skills Project
- “ Qualifications framework
- “ Vocational Education and Training
- “ Existing VET programmes
- “ Response strategy to skills gaps

MCASTs Role

1. Analysis of the National Status Quo
2. Building a national platform for qualifications in the building industry
3. Development of roadmap
4. Implementation of roadmap (Stage 2)



Qualifications Framework - MQF

8	Doctoral Degree		8
7	Master's Degree Postgraduate Diploma Postgraduate Certificate		7
6	Bachelor's Degree		6
5	Undergraduate Diploma Undergraduate Certificate	VET Highr Diploma	5
4	Matriculation Certificate Advanced Level Intermediate Level	VET Diploma	4 e
3	General Education Level 3 SEC Grade 1-5	VET Level 3	3 d
2	General Education Level 2 SEC Grade 6-7	VET Level 2	2 c
1	General Education Level 1 School Leaving Certificate	VET Level 1	1 a/b

EURYDICE


EACEA
Education, Audiovisual & Culture
Executive Agency

New Skills for New Jobs

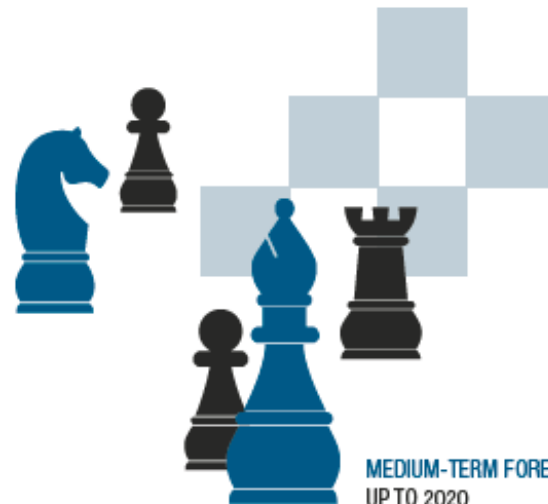
Policy initiatives in the field of education:
Short overview of the current situation in Europe

November 2010

European Commission



SKILLS SUPPLY AND DEMAND IN EUROPE



MEDIUM-TERM FORECAST
UP TO 2020

“ VET HAS A DUAL ROLE:

1. Meet immediate and future skills
2. Reduce social impact and facilitate recovery

“ SKILL NEEDS FORECASTING

Greater demand for medium to higher level qualification up to 2020

“ Social structures, including VET, to evolve to meet the challenges of:

Low-carbon economy

Continuing ICT driven evolution of products and services

Ageing population

- “ Systematic weakness in skill base reported
- “ Skills deficit in relation to STEM subjects
- “ Gaps in management and technical job specific skills
- “ Skills development to primarily focus on
 1. Improving existing skill base
[numeracy, literacy, team-work, communication, decision making]
 2. Increasing adaptability and occupational mobility of workers
- “ Country specific response is essential

Existing VET provision

IVET

“ Equip young learners with skills directly relevant to labour market

CVET

“ Update skills and competencies of existing workforce
“ Re-skilling

Renewable Energy Systems & PV Installation (MRA Approved) Single Phase; Lev.4 ECVET; 4

The course provides an introduction to renewable energy systems exploring the most common methods employed in Malta (Thermal Solar, Photovoltaic Systems and Micro-Wind Turbines).

Covers the relevant legislation concerning renewable energy sources and will also focus particularly on Photovoltaic Systems.

At the end of the programme candidates will have sufficient knowledge and practical experience to install PV systems.

60 hrs guided learning course.

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Renewable Energy Systems & PV Installation (MRA Approved) Three Phase: Lev. 4 ECVET: 1

The unit covers three-phase Solar PV systems

At the end of the unit, candidates will have sufficient knowledge and practical experience to install three phases PV systems.

This is a 10 hrs guided learning course.

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Heat Pumps Installation; Lev. 4 ECVET; 4

The intention of the course is to provide a certification scheme for heat pump installers, in accordance with directive 2009/28/EC

Underpinning theoretical knowledge and practical competencies associated with the effective installation of heat pump systems.

40 hrs of guided learning course.

The aim of this course is to equip learners with the necessary knowledge and practical skills required to install and maintain heat pump systems.

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Solar Thermal Installation (MRA App); Lev. 4 ECVET; 4

The intention of the course is to provide a certification scheme for solar thermal installers, in accordance with directive 2009/28/EC

Underpinning theoretical knowledge and practical competencies associated with the effective installation of solar thermal systems.

The course leads to installer certification in solar thermal technologies and includes both theoretical and practical aspects

This is a 50 hour course

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- “ Stationary Refrigeration Systems Cat.1; Lev.4 ECVET.3
 - “ Stationary Refrigeration Systems Cat.2; Lev.3 ECVET.2
 - “ Stationary Refrigeration Systems Cat.3; Lev.3 ECVET.2
 - “ Stationary Refrigeration Systems Cat.4; Lev.2 ECVET.2
-
- “ Minimum requirements for respective category certification referred to in article 5(1) of Regulation (EC) No 842/ 2006 in relation to stationary refrigeration, air conditioning and heat pump equipment containing certain fluorinated greenhouse gases.

Other IVET programmes

- “ L3 MCAST Diploma in Plumbing
- “ L3 MCAST Diploma in Heating, Ventilation and Air-Conditioning
- “ L4 MCAST Diploma in Heating, Ventilation and Air-Conditioning
- “ L4 MCAST-BTEC Extended Diploma in Building Services Engineering
- “ L5 MCAST-BTEC Higher National Diploma in Building Services Engineering

- “ L4 MCAST-BTEC Extended Diploma in Construction and the Built Environment
- “ L5 MCAST-BTEC Higher National Diploma in Construction and the Built Environment
- “ L4 MCAST-BTEC Extended Diploma in Environmental Sustainability
- “ L4 MCAST Diploma in Green Energy Technologies
- “ L6 Bachelor of Science (Honours) in Power Generation and Renewables

Response Strategy

“ Analysis of status quo

“ Content analysis of directives

“ Skill matching and identification of gaps

“ Training needs analysis (Train the trainer)

“ Curriculum and CVET programme development

“ Embedding within existing IVET programmes

CERTIFICATION SKILL CARDS

THANK YOU