



# EWF 25<sup>TH</sup> ANNIVERSARY

13 - 17 NOVEMBER 2017      OEIRAS, PORTUGAL

# WELC ME



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# New training tools based on a learner centred approach

Conference on Sectoral International  
Qualifications  
15<sup>th</sup> November 2017  
EWF, Portugal

# BACKGROUND

Re-designing of training  
curricula in terms of **Learning  
Outcomes**

Promotion of alternative  
pathways, **work-based  
learning & recognition of  
prior learning**

Introduction of modern  
training and evaluation **tools  
and methodologies**

**TRANSPARENCY  
OF  
QUALIFICATIONS**

**LIFELONG  
LEARNING**

**MOBILITY AND  
TRANSFER**

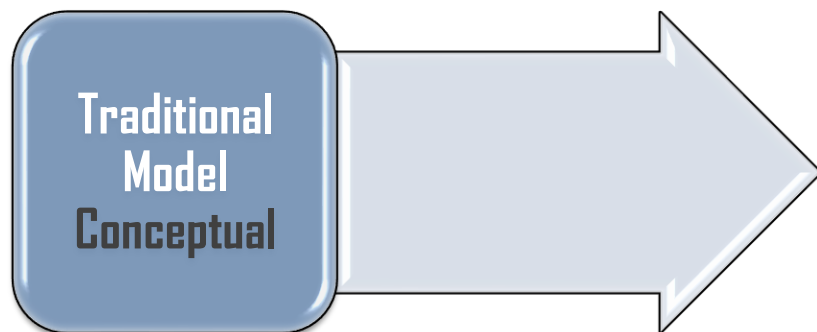
**LEARNING  
OUTCOMES**

**RECOGNITION OF  
PRIOR LEARNING**

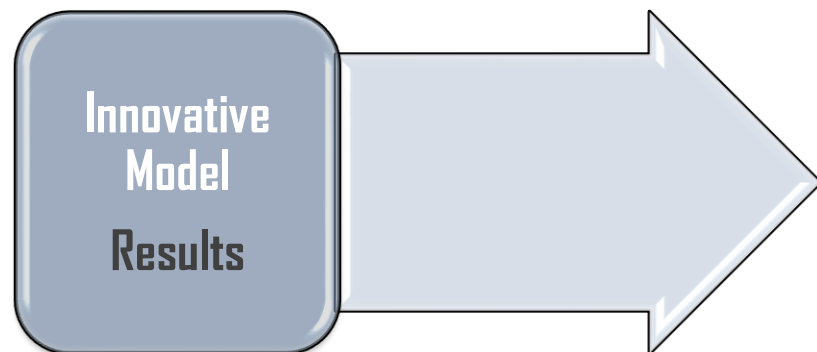
**EQF&ECVET**

# APPROACH TO QUALIFICATIONS DESIGN

## PARADIGM SHIFT



- **Inputs**
- **Length**
- **Contents**
- **Teaching methodologies**



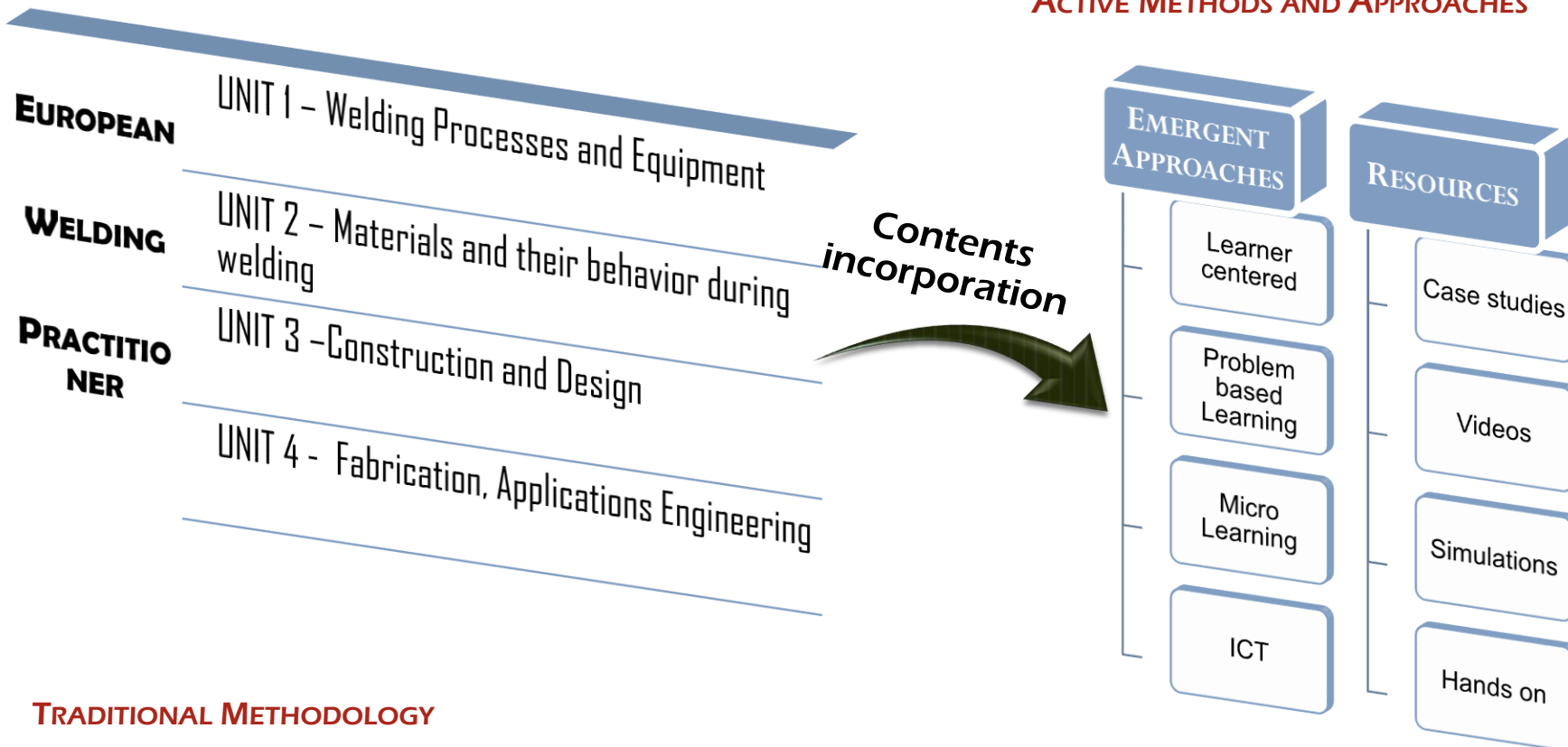
- **Outputs (Results)**
- **Focus on learner (knows, understands and is able to do)**
- **Greater recognition of learning regardless of the context in which is acquired**
- **Common language between varied actors in the system**
- **Clear and more explicit qualifications - Labour Market**



# NEW TRAINING METHODOLOGIES

## CONTRIBUTIONS FOR INCORPORATION – EU PROJECTS

### ACTIVE METHODS AND APPROACHES



### TRADITIONAL METHODOLOGY



# LEARNER-CENTERED METHODOLOGIES

## PROBLEM BASED LEARNING

**Understand  
the Problem**

**MEET THE PROBLEM  
KNOW / NEED TO KNOW  
DEFINE THE PROBLEM STATEMENT**

**Explore the  
Curriculum**

**GATHER INFORMATION  
SHARE INFORMATION  
GENERATE POSSIBLE SOLUTIONS**

**Solve the  
Problem**

**DETERMINE BEST FIT SOLUTION(s)  
PRESENT SOLUTION(s)  
DEBRIEF THE PROBLEM**

**The PROBLEM  
DRIVES the  
learning**



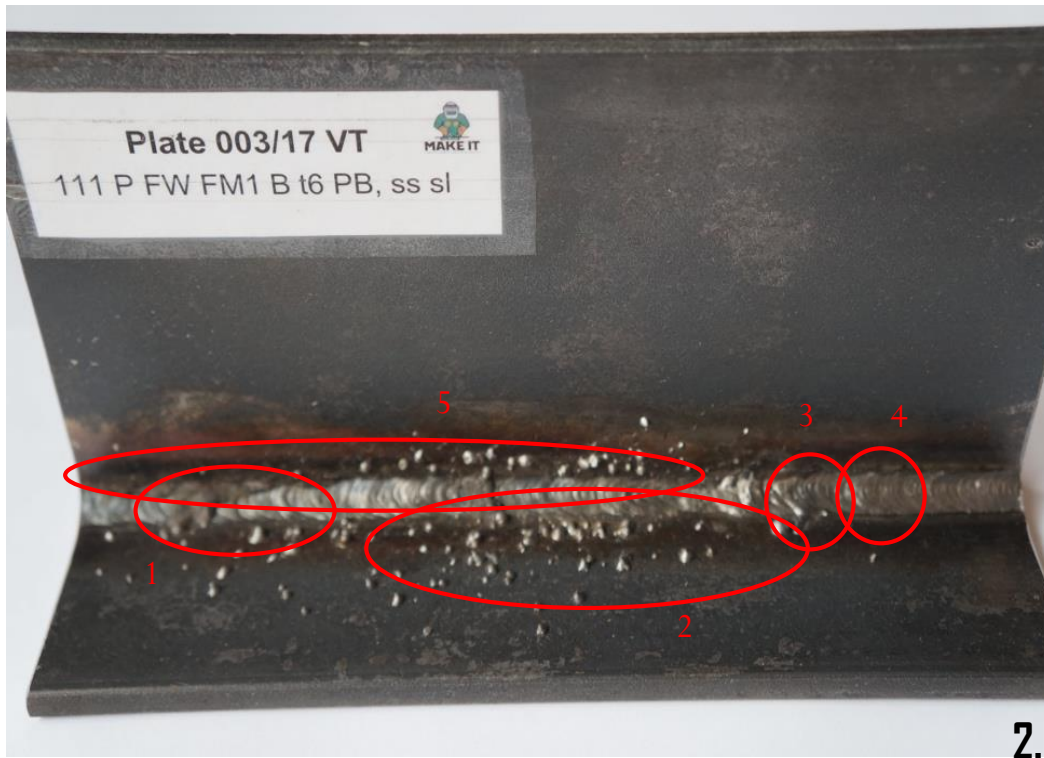
## PBL EXAMPLE

### WELDING TRAINERS 'KIT



Source: materials developed by the Portuguese Employment and Vocational Training Institute (IEFP) under the EU project - Make It

1.



## Results/ Defects

1. Slag inclusions
2. Spatter
3. Poor restart
4. Surface pore
5. Continuous undercut

Source: materials developed by the Portuguese Employment and Vocational Training Institute (IEFP) under the EU project - Make It



# LEARNER-CENTERED METHODOLOGIES

## MICROLEARNING

### Focused

- Right amount of information;
- Achieves a specific, actionable objective
- Detailed;
- Part of a structured learning experience.

### Holistic

Schemes  
Graphics  
Diagrams  
Infographics  
Illustrations  
Videos  
Storytelling

## MICRO-LEARNING EXAMPLE

### WELDING TRAINERS 'KIT



1.

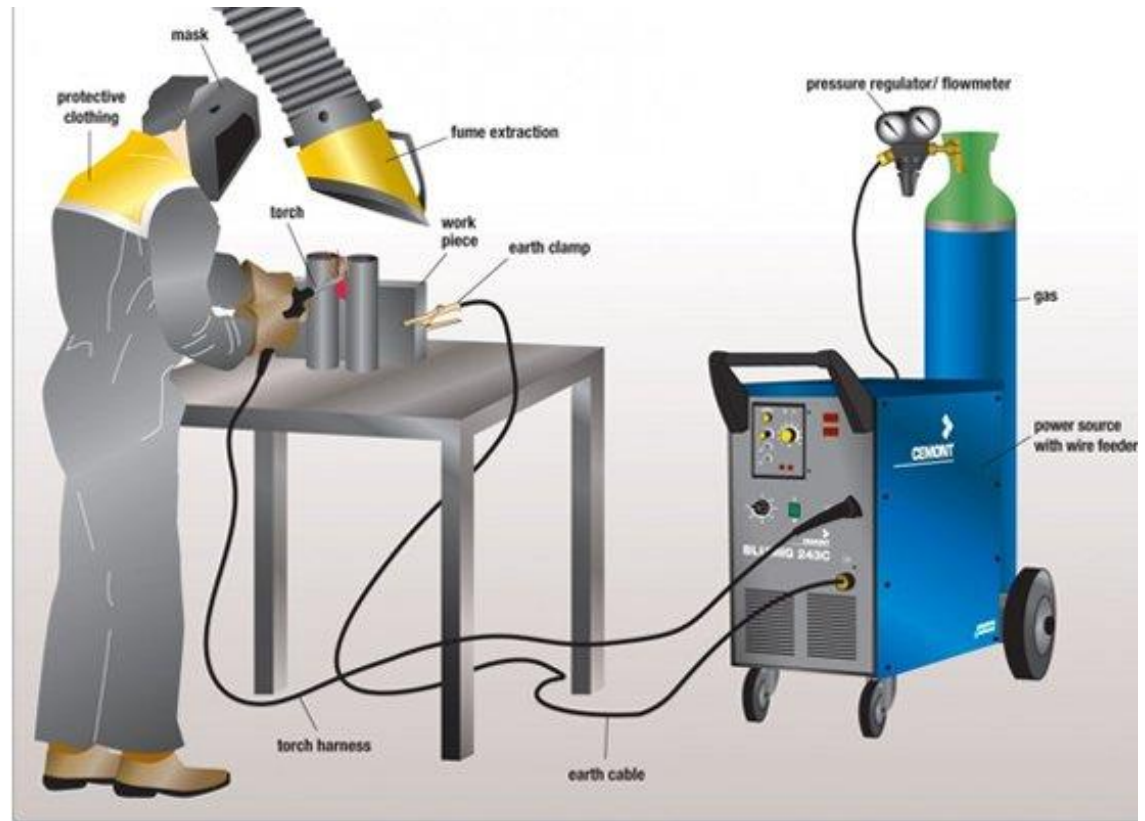
Source: materials developed by the Portuguese Employment and Vocational Training Institute (IEFP) under the EU project - Make It



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## ILLUSTRATIONS

- to understand **complex concepts or concepts** that are completely new for somebody;
- to **look for relationships**;
- to **link** with other **knowledge** that you already have.



# LEARNER-CENTERED METHODOLOGIES

# METALWORKING infographics



## Manual cutting

Donec pede justo, fringilla vel,  
aliquet nec, vulputate eget,  
arcu. In enim justo, rhoncus ut,  
imperdiet a, venenatis vitae.



## Molding

Cras ultricies mi eu turpis  
hendrerit fringilla. Vestibulum  
ante ipsum primis in faucibus  
orci luctus et ultrices posuere  
cubilia Curae.



## Lathe work

Aliquam lorem ante, dapibus  
in, viverra quis, feugiat a,  
tellus. Phasellus viverra nulla  
ut metus varius laoreet.



## Laser cutting

Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam.



## Milling

Maecenas nec odio et ante  
tincidunt tempus. Donec vitae  
sapien ut libero venenatis  
faucibus. Nullam quis ante.



## Welding

Lorem ipsum dolor sit  
 amet, consectetur  
 adipiscing elit. Aenean  
 commodo ligula eget  
 dolor. Aenean massa.

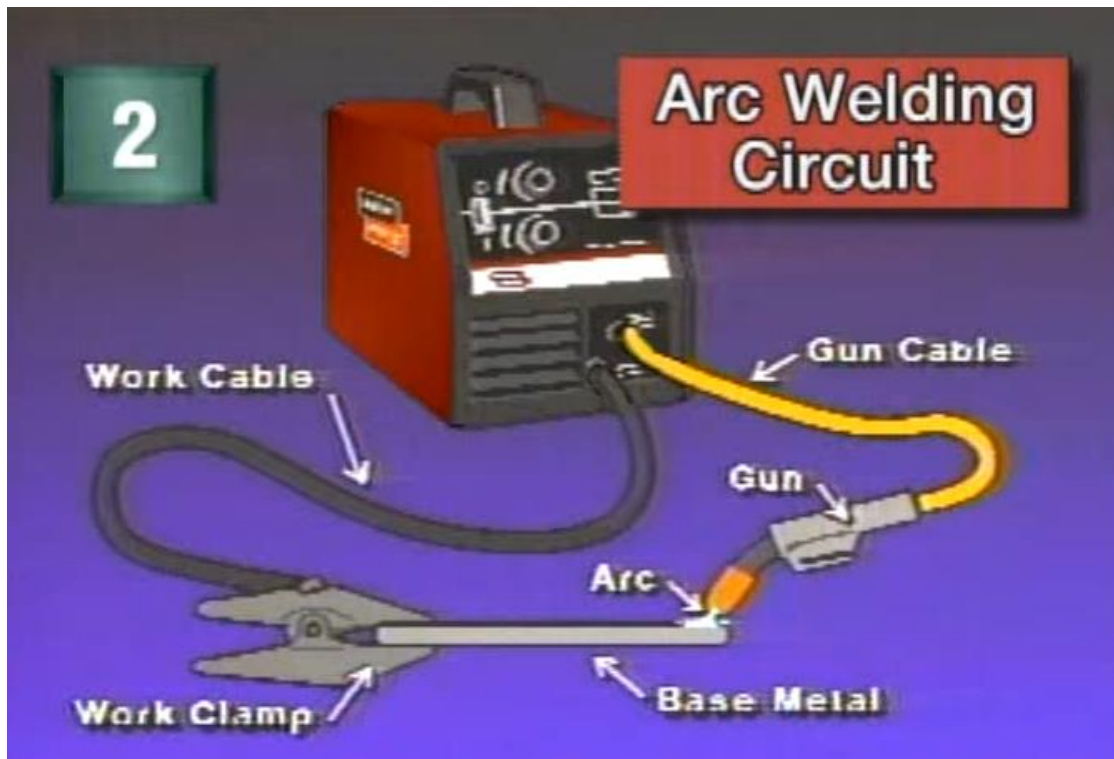
Integer ante arcu, accumsan a,  
consectetur eget, posuere ut,  
mauris. Praesent adipiscing.

Nunc nonummy metus. Vestibulum  
volutpat pretium libero. Cras id dul.  
Aenean ut eros et nisl sagittis  
vestibulum. Nullam nulla eros,  
ultrices sit amet, nonummy id,  
imperdiet feugiat, pede.

## INFOGRAPHICS

- to understand and obtain a **global vision of a complete workflow;**
- learns get a microlearning asset easy to **access** and **straightforward.**





## MICROVIDEO

- Few seconds of length but a great visual power.



- **UNIT 1** Organisation, management & self-development
- **UNIT 2** Training facilitation oriented to trainee
- **UNIT 3** Innovative training methods and techniques
- **UNIT 4** Monitoring and evaluation of learning
- **UNIT 5** Digital Competences
- **UNIT 6** Transversal Competences

# LEARNER-CENTERED METHODOLOGIES

## CONTRIBUTIONS FOR INCORPORATION – EU PROJECTS

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[www.makeitproject.eu](http://www.makeitproject.eu)



[www.xxitrainer.eu/](http://www.xxitrainer.eu/)

# THANK YOU

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