

International AM Qualification System

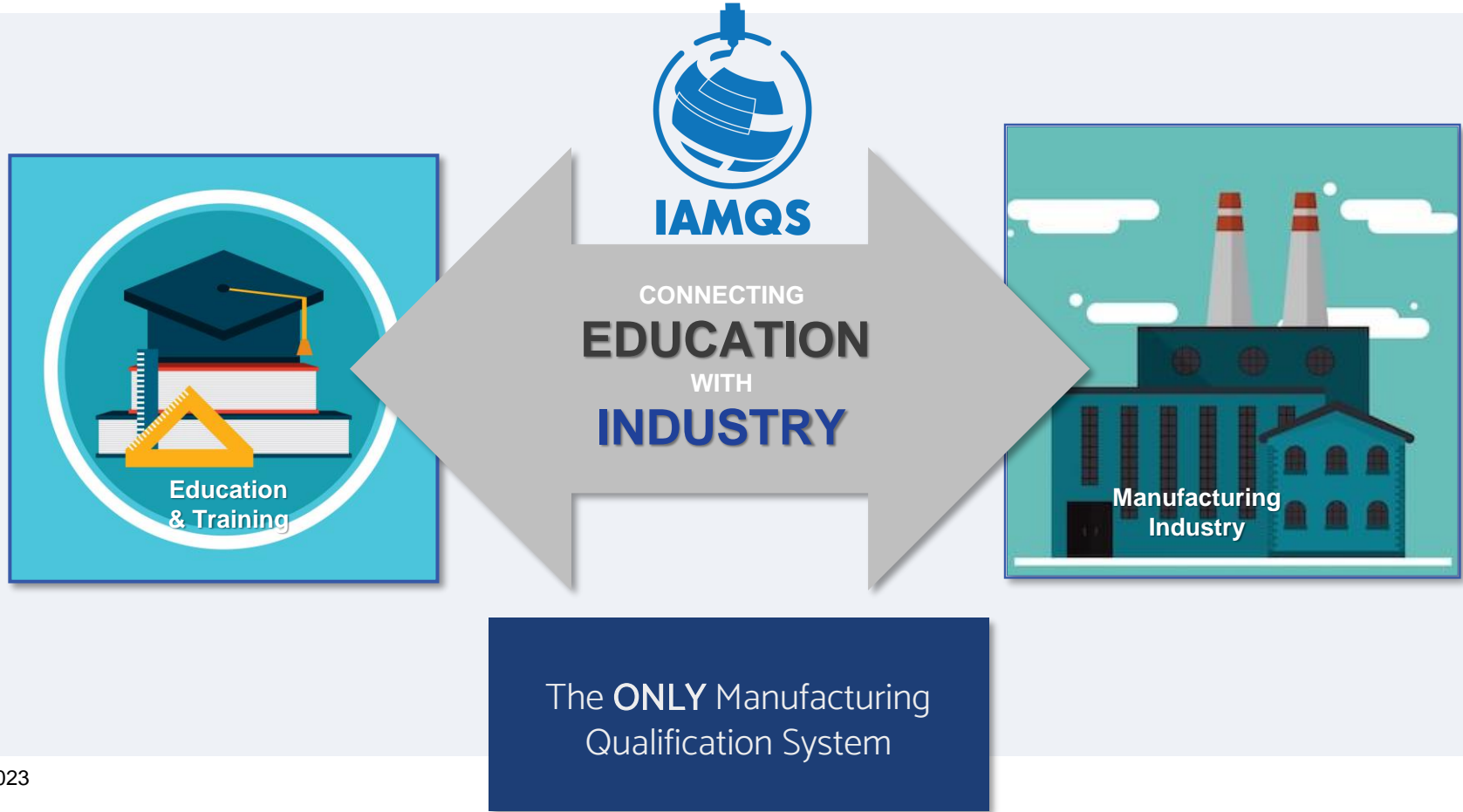
MULTI-FUN Speed Tech Forum
17-03-2023

Rita Bola



IAMQS

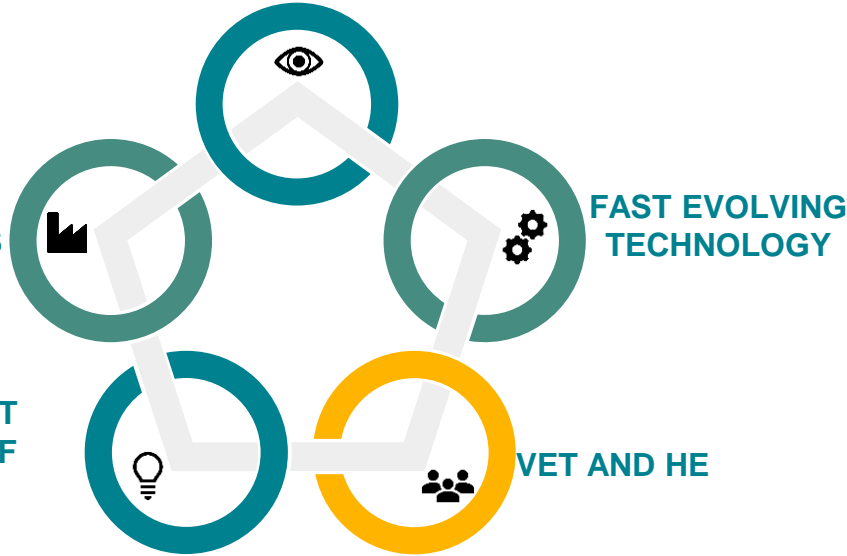
INTERNATIONAL AM QUALIFICATION SYSTEM





IAMQS

**NATIONAL
REQUIREMENTS**



**INDUSTRIAL
REQUIREMENTS**

**FAST EVOLVING
TECHNOLOGY**

**DIFFERENT
LEVELS OF
SKILLS**

VET AND HE



Alignment between IAMQS Qualifications and AM Standardisation Bodies

Qualification of Personnel Standards:

Designer – ISO/ASTM 52937

Operators – ISO/ASTM 52926

Coordination – ISO/ASTM 52935



ASTM INTERNATIONAL



IAMQS

Implementing the Qualification System

**NOW IMPLEMENTED
IN 7 COUNTRIES**

FIND OUT MORE

EWF.BE/IAMQS



Network of Training Centres (ATBs)



Find your Training Centre at
SAM OBSERVATORY

WHERE TO LEARN ?



AM PROCESS ENGINEER



AM SUPERVISOR

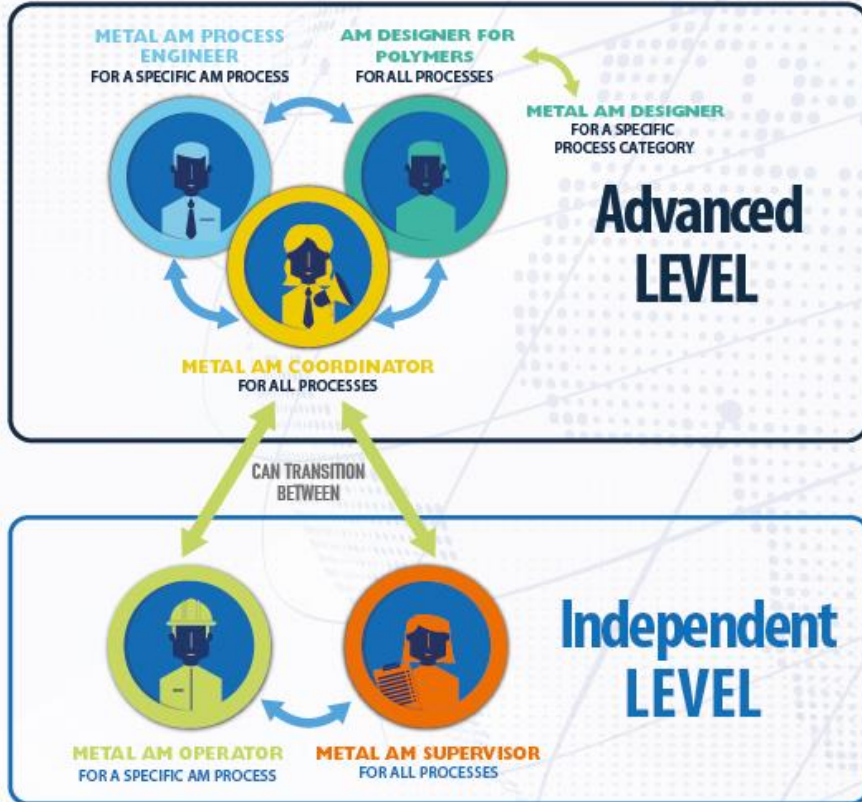


AM OPERATOR



AM DESIGNER

Progression in the IAMQS



AM MODULAR SYSTEM

*Advanced Level - alignment with EQF level 6

*Independent Level - alignment with EQF level 4

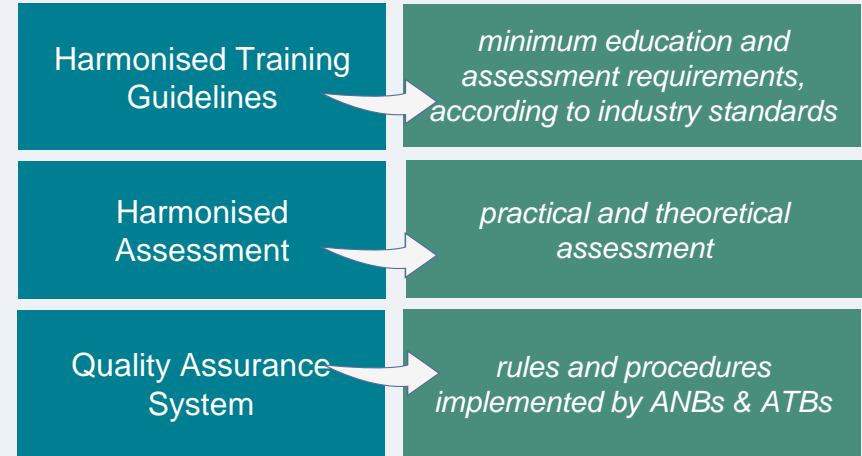
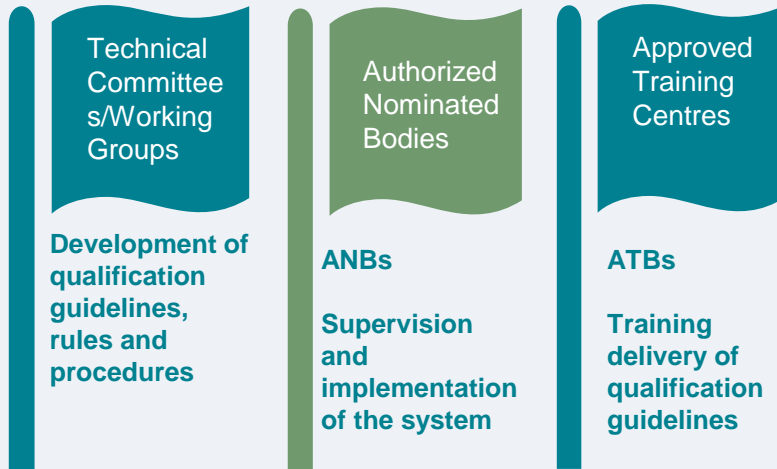
— Direct access

— Possible access, if other access conditions are also met

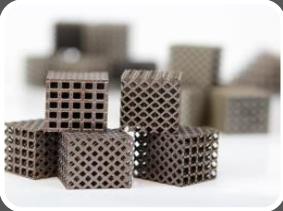
MAJOR PILLARS OF IAMQS QUALITY ASSURANCE SYSTEM



MEMBERS NETWORK



Based on ISO 17024



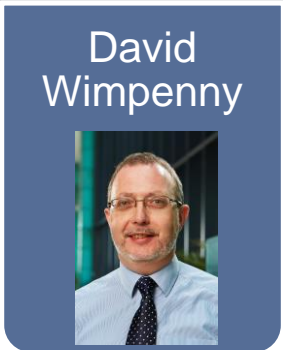
Metal AM WG



Polymers AM WG

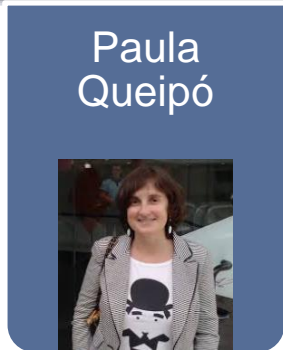


Industrial AG



David Wimpenny

Qualification Council

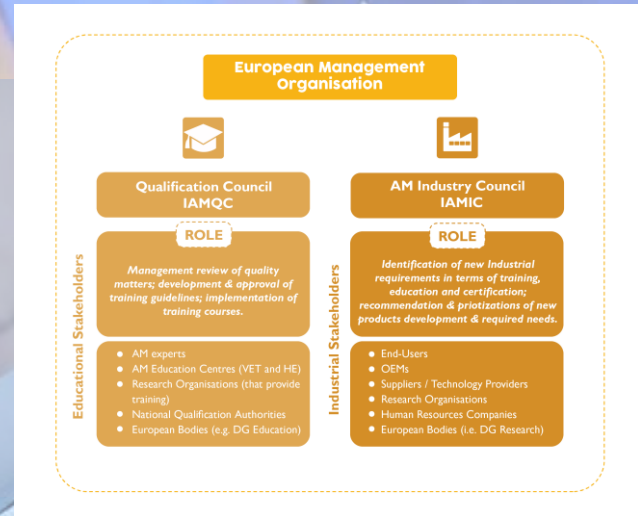


Paula Queipó



Martin Schaefer

Industrial Council



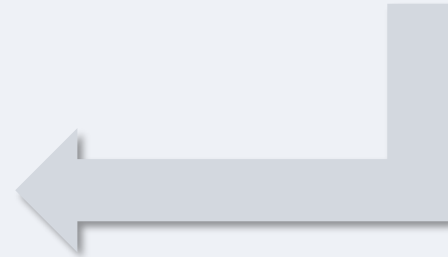


Material extrusion (most common)	<ul style="list-style-type: none">• The material is selectively dispensed through a nozzle
Material jetting	<ul style="list-style-type: none">• Droplets of build material are selectively deposited
Binder jetting	<ul style="list-style-type: none">• Liquid bonding agent is selectively deposited to join powder materials
Directed energy deposition	<ul style="list-style-type: none">• Thermal energy is used to fuse materials by melting as they are being deposited
Powder bed fusion	<ul style="list-style-type: none">• Thermal energy selectively fuses regions of a powder bed
Sheet lamination	<ul style="list-style-type: none">• Sheets of material are bonded to form a part
Vat photopolymerization	<ul style="list-style-type: none">• Liquid photopolymer in a vat is selectively cured by light-activated polymerization



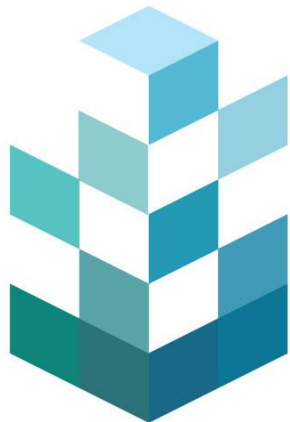
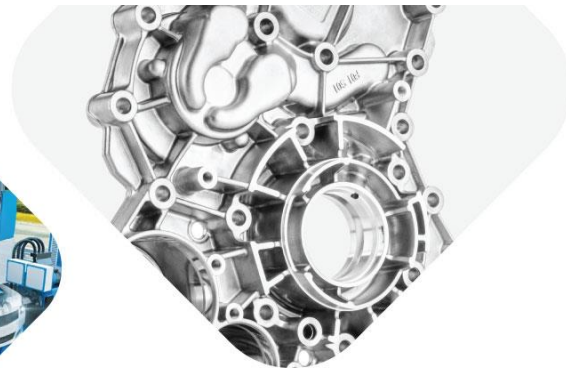
MULTI-FUN

ENABLING MULTI-FUNCTIONAL PERFORMANCE
THROUGH MULTI-MATERIAL ADDITIVE MANUFACTURING





SAVE ✕ ✕
THE DATE!



***TRAINING
WORKSHOP
OPPORTUNITY***

**17-18
October 2023**



Co-funded by the Horizon 2020 programme of the European Union under grant agreement No 862617



How can



IAMQS

benefit you?

COMPANIES

support your **competitiveness** and **growth**, ensuring the **right skills sets** of your **workers**, according to **your business needs**

TRAINING
CENTRES

increase your **training offer**; enhance your **collaboration with other organisations**, and **attract trainees** from around the world

TRAINEES

gain **specialized know-how** to leverage AM technology, **increasing your chances** to find a **job /start a career**.

Advantages of being part of the AM Network

- Access to an internationally recognized AM Qualification System;
- AM Qualification 100% in line with industrial requirements and in compliance with Standardization rules;
- Usage of a Qualification that is recognized by CEDEFOP as a best practice of international qualification system;
- Award International AM Diplomas recognized by Industry.



THANKS

rgbola@ewf.be
www.ewf.be



IAMQS