



# International Additive Manufacturing Qualifications

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## Goal

Support the current implementation of AM  
Increasing uptake of AM technologies at different levels



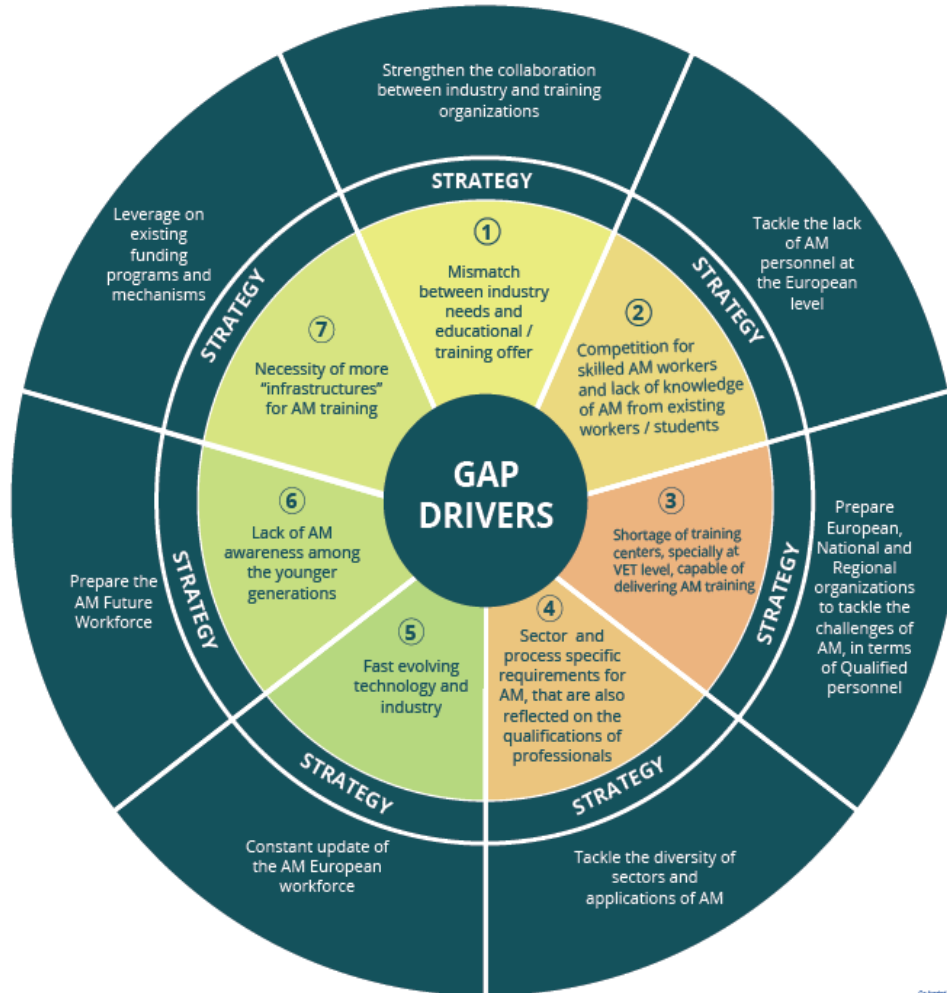
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## EUROPEAN AM SECTOR SKILLS STRATEGY

### Added – Value



# EUROPEAN AM SECTOR SKILLS STRATEGY



[www.skills4am.eu](http://www.skills4am.eu)



# EUROPEAN AM SECTOR SKILLS STRATEGY



# INTERNATIONAL AM QUALIFICATION SYSTEM

Based on the ONLY Manufacturing  
Qualification System





# INTERNATIONAL AM QUALIFICATION SYSTEM

Based on the ONLY Manufacturing  
Qualification System

ONE  FORTY SIX **46**  
SYSTEM COUNTRIES

25 YEARS OF INTERNATIONAL QUALIFICATIONS



Training Personnel in Welding & Joining



Qualification of Personnel in Welding & Joining



Certification of Personnel / Companies



Technical Information



Technical Products



Collaboration Projects







# INTERNATIONAL AM QUALIFICATION SYSTEM

Based on the ONLY Manufacturing  
Qualification System

**3** AREAS  
OF COMPANIES'  
CERTIFICATION



**23**  
TRAINING  
GUIDELINES

**52**   
COURSES  
QUALIFICATIONS  
& CERTIFICATIONS

**MORE  
THAN  
650**  
AUTHORISED  
TRAINING  
CENTRES

**MORE  
THAN**

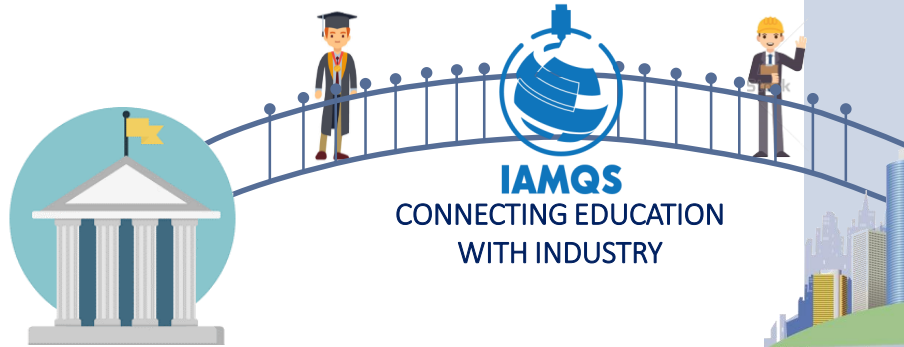
**300.000**  
INDUSTRIAL PERSONNEL QUALIFIED





# INTERNATIONAL AM QUALIFICATION SYSTEM

Based on the ONLY International  
Harmonised System in Manufacturing



Education & Training

Manufacturing Industry



**INDUSTRIAL  
REQUIREMENTS**



**DIFFERENT LEVELS OF  
SKILLS**

**NATIONAL  
REQUIREMENTS**



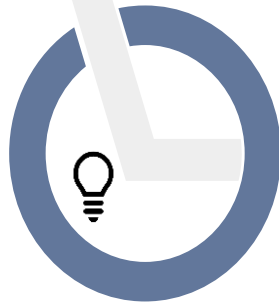
**AM  
SKILLS**



**FAST EVOLVING  
TECHNOLOGY**



**VET AND HE**



## INTERNATIONAL AM QUALIFICATION SYSTEM

### Alignment Between IAMQS Qualifications and AM Standardization Bodies

Qualification of Personnel Standards:

Operators - ISO/ASTM 52926

Coordination - ISO/ASTM 52935

Designer - ISO/ASTM 52937

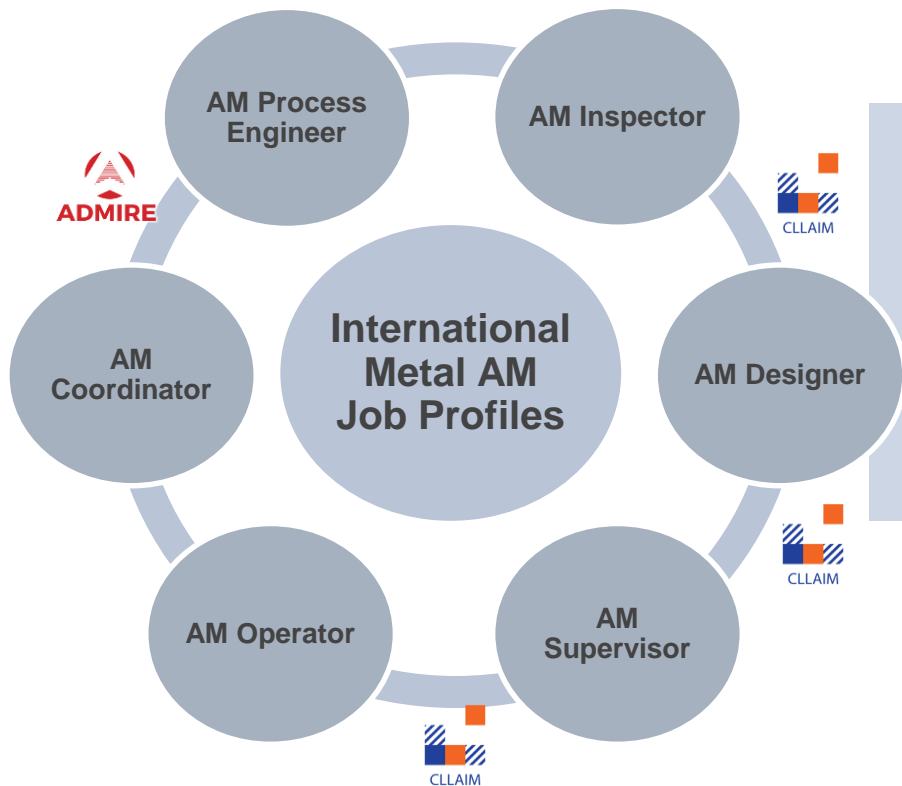




## Status of ISO/ASTM WD 52926 series

- Documents under CD ballot until January
- *ISO/ASTM 52926-1 - Additive Manufacturing of Metals — Qualification principles — Part 1: General qualification of machine operators*
- *ISO/ASTM 52926-2 - Additive Manufacturing of Metals — Qualification principles — Part 2: Qualification of machine operators for PBF-LB*
- *ISO/ASTM 52926-3 - Additive Manufacturing of Metals — Qualification principles — Part 3: Qualification of machine operators for PBF-EB*
- *ISO/ASTM 52926-4 - Additive Manufacturing of Metals — Qualification principles — Part 4: Qualification of machine operators for DED-LB*
- *ISO/ASTM 52926-5 - Additive Manufacturing of Metals — Qualification principles — Part 5: Qualification of machine operators for DED-Arc*

# Existing and Future Qualifications



Directed Energy Deposition - Arc

Directed Energy Deposition - Laser Beam

Powder Bed Fusion - Laser Beam

Powder Bed Fusion - Electron Beam

Vat photopolymerization

Material jetting

Binder jetting

Polymers

Composites

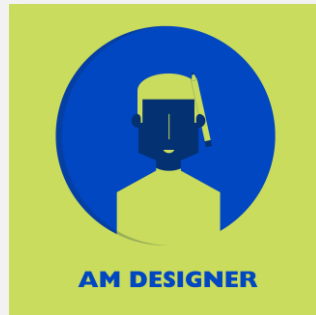
# INTERNATIONAL AM QUALIFICATIONS



**DED-Arc Operator**

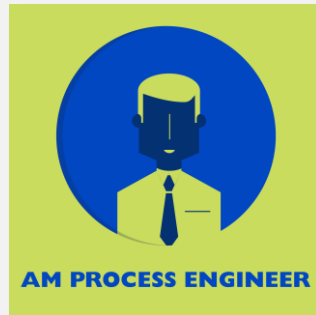
**DED-LB Operator**

**PBF-LB Operator**



**PBF Processes**

**DED Processes**



**+ Specialisation**

**DED-Arc Engineer**

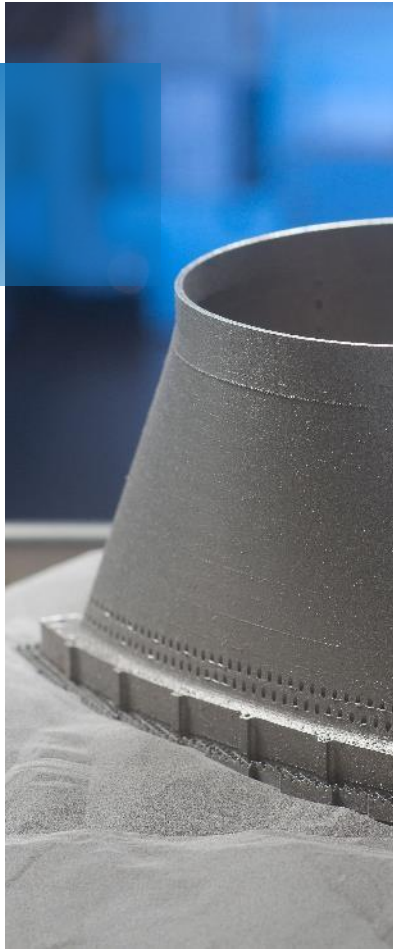
**DED-LB Engineer**

**PBF-LB Engineer**



# AM MODULAR SYSTEM

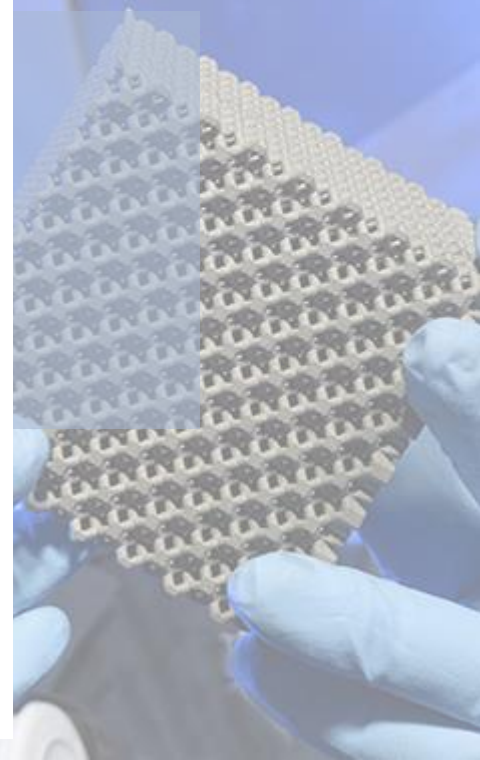
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## Creating the First International AM Qualification Network



# THANKS

Does anyone have any questions?  
Follow the IAMQS updates

Contact Details: [egassuncao@ewf.be](mailto:egassuncao@ewf.be)



**EWF**



**IAMQS**

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