

# International Metal AM Operators

CLLAIM

Based on a Harmonized Modular Framework, integrated on the International AM Qualification System (IAMQS)<sup>1</sup>.

Metal AM  
Operator  
DED-Arc

Metal AM  
Operator  
PBF-LB

Metal AM  
Operator  
DED-LB

Metal AM  
Operator  
PBF-EB

## The first International Metal Additive Manufacturing Qualification System

- **Modular Structure** easily adapted by Training Centres.
- **Harmonized Curriculum** allowing similar content lectured all over the world.
- Award an **International Diploma**, recognised by Industry.
- **International Network** of AM Training Centres and AM Industry.
- Regular updates of the Qualifications aligned with the **latest technological developments**.
- Alignment of the Curriculum with **Industrial Standards**.

<sup>1</sup>The IAMQS is managed by CLLAIM project Partner EWF. To implement or apply for one of the courses within the International AM Qualification System, please contact EWF at [ewf@ewf.be](mailto:ewf@ewf.be)

## Metal AM Operator DED–Arc Competence Units (CUs)

**CU 00:** Additive Manufacturing Process Overview

**CU 01:** DED–Arc Process

**CU 02:** Quality Assurance (QA) in DED–Arc

**CU 03:** Health, Safety and Environment (HSE) in DED–Arc

**CU 04:** Fit and set-up of DED–Arc systems

**CU 05:** Manufacturing of DED–Arc parts

**CU 06:** Post processing of DED–Arc parts

**CU 07:** Maintenance of DED–Arc systems

## Metal AM Operator DED–LB Competence Units (CUs)

**CU 00:** Additive Manufacturing Process Overview

**CU 08:** DED–LB Process

**CU 09:** Quality Assurance (QA) in DED–LB

**CU 10:** Health, Safety and Environment (HSE) in DED–LB

**CU 11:** Fit and set-up of DED–LB systems

**CU 12:** Manufacturing of DED–LB parts

**CU 13:** Post processing of DED–LB parts

**CU 14:** Maintenance of DED–LB systems

### Optional CUs

**CU 48:** Powder Handling

**CU 49:** Laser Beam Characterisation

## Metal AM Operator PBF–LB Competence Units (CUs)

**CU 00:** Additive Manufacturing Process Overview

**CU 15:** PBF–LB Process

**CU 16:** Quality Assurance (QA) in PBF–LB

**CU 17:** Health, Safety and Environment (HSE) in PBF–LB

**CU 18:** Hardware, software and build file set-up for PBF–LB

**CU 19:** Monitoring and managing the manufacturing of PBF–LB parts

**CU 20:** Post-processing of PBF–LB parts

**CU 21:** Maintenance of PBF–LB systems

### Optional CUs

**CU 48:** Powder Handling

**CU 49:** Laser Beam Characterisation

## Metal AM Operator PBF–EB Competence Units (CUs)

**CU 00:** Additive Manufacturing Process Overview

**CU 22:** PBF–EB Process

**CU 23:** Quality Assurance (QA) in PBF–EB

**CU 24:** Health, Safety and Environment (HSE) in PBF–EB

**CU 50:** Hardware, software and build file set-up for PBF–EB

**CU 51:** Monitoring and managing the manufacturing of PBF–EB parts

**CU 52:** Post-processing of PBF–EB parts

**CU 53:** Maintenance of PBF–EB systems

### Optional CUs

**CU 48:** Powder Handling