

**CERTIFIED METAL ADDITIVE
MANUFACTURING PROFESSIONAL**

ADVANCED TRAINING



The challenge: Exploiting the full potential of metal-based additive technologies

Additive manufacturing processes are permanently modifying design and manufacturing product procedures. Increasingly, high-quality, complex products are being developed and mass-produced on the basis of metal-based additive manufacturing processes. In order to exploit the potential of metal-based additive technologies to the maximum, profound know-how in design and additive production processes are essential.

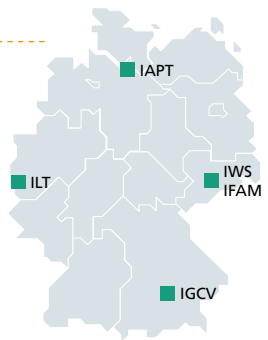
Solution: Establishing profound design and production expertise

To implement the innovation of additive manufacturing methods in your products and production processes, you will require this expertise. In addition to an overview of the current development status, the use of additive technologies requires comprehensive approaches often challenging established processes.

Within the framework of the **Certified Metal Additive Manufacturing Professional**, you will acquire the necessary expertise for comprehensive handling metal-based additive technologies, optionally in the field of design or production. As proof of your acquired professional skills, you will receive a qualifying degree from the Fraunhofer Personal Certification Body (accredited according to ISO 17024).

Your trainers and training locations

- Fraunhofer IAPT, Hamburg
- Fraunhofer IWS, Dresden
- Fraunhofer IFAM, Dresden
- Fraunhofer ILT, Aachen
- Fraunhofer IGCV, Augsburg



Design department

- Design guidelines for additive manufacturing
- Conception and design of additive components
- Criteria for additive design along the entire process chain
- Re-design of case studies

Production department

- Functional principle and application area of metal-based additive manufacturing processes
- Process chains for the production of complex, additive components
- Raw material, process parameters and optimization potential
- Quality assurance measures
- Aspects of occupational safety
- Organization of the AM supply chain
- Norming and standardization

How to get certified

- Period: from 4 days, depending on your company's objectives
- Language: German/English
- Number of participants and date: on request
- Possible venues:
 - Fraunhofer IAPT, Hamburg

How to get certified

- Period: from 4 days, depending on your company's objectives
- Language: German/English
- Number of participants and date: on request
- Possible venues:
 - Fraunhofer IGCV, Augsburg
 - Fraunhofer IWS and Fraunhofer IFAM, Dresden
 - Fraunhofer ILT, Aachen



1

© Copyright: Fraunhofer IGCV

Certified Metal Additive Manufacturing Professional

Certified Metal Additive Manufacturing Professional provides you with a tailored combination of theory and practice by well-known Fraunhofer Institutes and facilities including many examples and applicable knowledge for the practical field "design and production". You will receive an ISO 17024 accredited, qualifying degree in metal-based additive manufacturing.

Contact

Program Coordination and
Department Production

Matthias Schneck
Fraunhofer IGCV, Augsburg
Germany
+49 821 90678-140

matthias.schneck@igcv.fraunhofer.de

Department Design

Jochen Look
Fraunhofer IAPT, Hamburg
Germany
+49 40 484010-736

jochen.look@iapt.fraunhofer.de



Cover Design demonstrator:
Additively manufactured
aerospike nozzle

1 Additively manufactured,
bionically optimized gear
wheel.