FusionTech

CENTER of EXCELLENCE
Research to Standards
ADDITIVE MANUFACTURING

**July 15 - 16, 2025**

**Hosted by FusionTechnology**
'MakeinYongsan', Seoul, Yongsan District, Cheongpa-ro, 77 3rd Floor

## ASTM CERTIFICATE COURSE

# Methods of Qualification and Certification for AM

ASTM International, who has been providing world-class training on Additive Manufacturing (AM), provides a training course with the mission to support scaling up of AM adoption.

*Full-day sessions July 15 – 16 (Tue & Wed, 0900 a.m. – 0530 p.m.)

**Gain awareness on the best practice and the latest advancements in AM**

**Learn from experts from ASTM AMCoE and Auburn University**

**Earn a globally recognized certificate from ASTM International**

### Opening Address:

Dr. Alex Liu
Director, ASTM International

### Instructors:

**Dr. Mahdi Jamshid**
Director, Market Intelligence
Wohlers Associates

**Scott Sevcik,**
Director
Advisory Services & Strategic Solutions
Wohlers Associates

**Andy Lu**
Manager
Additive Manufacturing Programs
ASTM International

### Point of Contact:

Mr. Andy Lu, ASTM International
alu@astm.org

## About the Course

**Course Level: Intermediate to Advanced users**
**Course Language: English & Korean translation provided**
**Course Textbook: English & Korean provided**

**Your Training Pack! 3 Key Documents:**

1. Textbook of the training on AM Qualification & Certification for Aerospace and Defense industries
2. Sharing & training decks from 2 US experts
3. A 10-20 page summary report on how to qualify and certify aerospace/defense AM parts under international standards

This course covers the requirements and routes to validation for metal additive manufacturing parts produced by powder bed fusion and directed energy deposition manufacturing processes. This course will leverage recent case studies from the PBF and DED world to provide context for Structural Integrity challenges and opportunities.

The 2-day training course is based on ISO and ASTM standards and is aimed at those who are using, or plan to use, AM in serial or critical applications and would like to learn more about the routes to Qualification and Certification. Attendees would be required to have a strong background in Additive Manufacturing.

The instructors have in-depth experience in Materials, Qualification & Certification, and making parts from Additive Manufacturing Methods. The learning methods are based on logic and experience, and real-life best practices will be shared. This is not a series of lectures; there will be discussions, mini-workshops, and plenty of opportunities to ask questions.

### Who should attend?

This course is suitable for AM Engineers, AM operators, QA/QC Engineers, and other individuals with existing experience in AM who wish to know the route to qualification and certification.

### Course Fees:

USD799 per person (early-bird price for registration by Jun 30)
USD999 per person (regular price for registration after Jul 01)

Registration Link: Scan or click the QR code on the right

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| Jul 15 | Topics |
|---|---|
| 0830 – 0900 | Registration; Welcome and Introduction |
| 0900 – 1000 | **Qual and Cert Foundations**<br>• Introduction<br>• Fundamentals of Qualification & Certification<br>• Overview of a Qualification & Certification<br>• Framework for Aviation and Aerospace& Defense sectors |
| 1000 – 1200 | **Guest Lecture by Wohlers Associate US Expert (online live)**<br>• AM Aerospace in South Korea and the world, An overview from Wohlers Report 2025 |
| 1200 – 1300 | Lunch Break |
| 1300 – 1430 | **Part Classification for Aviation & Aerospace**<br>• AM Part Classification<br>• Consequences<br>**Requirements & Standards**<br>• Requirements overview<br>• Importance of standards<br>• Regulatory requirements |
| 1445 – 1730 | **Route to Qualification & Certification for Aviation & Aerospace applications**<br>• IQ/OQ/PQ of aviation & aerospace applications |

| Jul 16 | Topics |
|---|---|
| 0900 – 0915 | Recap of Day 1; Q & A Session |
| 0915 – 1000 | **Material Properties, Allowable, Material Property Suite for Aviation & Aerospace & Defense Materials**<br>• Material Properties & Material allowable<br>• Material property suite |
| 1000 - 1200 | **Guest Lecture by Wohlers Associate US Expert (online live)**<br>• AM industries Defence, army and navy in South Korea and the world |
| 1200 – 1300 | Lunch Break |
| 1300 – 1500 | **Part Production Controls, NDE Considerations, Defects, Managing Supply Chain for Aviation & Aerospace & Defense AM Industries**<br>• AM part production plan<br>• Qualified AM Part process<br>• Supply chain considerations |
| 1515 – 1615 | **Qualification Testing & Service**<br>• Qualification testing<br>• Industry perspective on AM qualification |
| 1630 – 1730 | **Case Studies Session**<br>• Real-life aviation, aerospace and defense AM applications from the US |