FusionTech

ASTM CENTER of EXCELLENCE Research to Standards ADDITIVE MANUFACTURING

July 15 - 16, 2025

Hosted by FusionTechnology
Seoul

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 Wohlers Associates

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:
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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 Jun 30)

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** • Introduction • Fundamentals of Qualification & Certification • Overview of a Qualification & Certification • Framework for Aviation and Aerospace& Defense sectors
1000 – 1200	**Guest Lecture by Wohlers Associate US Expert (online live)** • 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** • AM Part Classification • Consequences **Requirements & Standards** • Requirements overview • Importance of standards • Regulatory requirements
1445 – 1730	**Route to Qualification & Certification for Aviation & Aerospace applications** • 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** • Material Properties & Material allowable • Material property suite
1000 - 1200	**Guest Lecture by Wohlers Associate US Expert (online live)** • AM in Defence, army and navy industries 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** • AM part production plan • Qualified AM Part process • Supply chain considerations
1515 – 1615	**Qualification Testing & Service** • Qualification testing • Industry perspective on AM qualification
1630 – 1730	**Case Studies Session** • Real-life aviation, aerospace and defense AM applications from the US