



CENTER of
EXCELLENCE
Research to Standards
ADDITIVE MANUFACTURING



ASTM CERTIFICATE COURSE

Methods of Qualification and Certification for AM

Covers validation requirements for metal additive manufacturing (AM) parts produced by Powder Bed Fusion (PBF) and Directed Energy Deposition (DED) processes.



Nikon Headquarters, Tokyo, Japan

1-5-20, Nishioi, Shinagawa-ku, Tokyo 140-0015, Japan

--> 5 min walk from Nishioi station, JR Yokosuka line (click [here](#) for direction information)



March 6 - 7, 2025

Thursday & Friday, 8:30am – 5:30pm

Opening Address:

Dr. Mohsen Seifi
Vice President
Global Advanced Manufacturing
Programs
ASTM International

Instructors:

Dr. Alex Liu, ASTM International
Mr. Andy Lu, ASTM International
Dr. Behrang Poorganji, Nikon AM
Synergy

Point of Contact:

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

Discover the latest advancements and
best practices in Additive Manufacturing

Learn from industry experts from ASTM
AM CoE

Earn a globally-recognized certificate
from ASTM International



**For more
information:**

Scan or click on QR code

About the course

Course Level: Intermediate to Advanced users

Course Language: English & Japanese translation provided

Course Textbook: English Textbook & Japanese supplemental text

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.

This 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.

Developed by AM industry experts, this course will cover core topics like:

- Foundations for Qualification & Certification
- Consequences & Classifications
- Material Insights
- Part Production & Qualification Testing

This is not a series of lectures; there will be series of discussions, mini-workshops, and plenty of opportunities to ask questions.

Who should attend?

This course is suitable for metal additive manufacturing (AM) engineers, metal AM operators, metal AM managers and team leaders as well as professionals with experience in metal AM.

Course fees

\$799 per person (Early-bird price for registration before/on 9 February 2025)

\$999 per person (Regular price for registration after 10 February 2025)

Caution: The course may be cancelled if enrollment is low.




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Day 1 Mar 06	Topics
0830 - 0900	Registration
0900 - 0940	Welcome Address <ul style="list-style-type: none"> • ASTM Vice President • Nikon
0940 - 1030	Qual and Cert Foundations <ul style="list-style-type: none"> • Fundamentals of qualification & certification • Overview of framework
1030 - 1045	Coffee Break
1045 - 1215	Classifications & Consequences <ul style="list-style-type: none"> • AM part classification • Consequences
1215 - 1315	Lunch Break *
1315 - 1445	Requirements & Standards <ul style="list-style-type: none"> • Requirements overview • Importance of standards • Regulatory requirements
1445 - 1500	Coffee Break
1500 - 1730	Route to Qualification & Certification <ul style="list-style-type: none"> • IQ/OQ/PQ • Candidate material qualification

Day 2 Mar 07	Topics
0830 - 0900	Reception Open
0900 - 0930	Recap of Day 1; Q&A Session
0930 - 1200	Metal Material Properties, Allowable, Material Property Suite <ul style="list-style-type: none"> • Material properties • Material allowable • Material property suite
1200 - 1300	Lunch Break *
1300 - 1500	Part Production Controls, NDE Considerations, Defects, Managing Supply Chain <ul style="list-style-type: none"> • AM part production plan • Qualified AM part process • Supply chain considerations
1500 - 1515	Coffee Break
1515 - 1700	Qualification Testing & Service <ul style="list-style-type: none"> • Qualification testing • Industry perspective • Case study
1700 - 1730	Q&A Session

* Lunch box will be provided.

Register today!
Scan or click on QR code

