CENTER of EXCELLENCE
Research to Standards
ADDITIVE MANUFACTURING

ASTM CERTIFICATE COURSE

AM Essentials for Professionals

Provides knowledge on the various practices of AM covering different process categories, terminologies, standards associated with different processes and applications, and how these standards can be utilized for developing qualification and certification.

Tokyo
Exact venue to be confirmed in end June

September 4-5, 2025
Thursday & Friday, 9.30am - 5.30pm

Opening Address:

Dr. Alex Liu
Director
Advanced Manufacturing Programs - Asia Region
ASTM International

Trainers:

Dr. Toshi-Taka Ikeshoji,
Tohoku University

Dr. Yoichiro Koga
Promethean

Mr. Andy Lu
ASTM International

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 the QR code

About the course

Course Level: Beginner users
Course Language: Japanese
Course Textbook: English & Japanese Textbooks

With the industrialization of additive manufacturing (AM), there is a growing demand to fill the existing knowledge gap. ASTM International, who has been providing world-class training on AM, has launched a training course with the mission to support the scaling up of AM adoption.

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

- AM Overview & Standards
- Materials & Design
- AM Processing & Post-processing
- Destructive & Non-Destructive Evaluation

Additionally, there is an opportunity to interact and network with industry experts on the current state-of-the-art of AM technology during this course as part of the AM learning journey.

This is not a series of lectures; there will be plenty of opportunities to ask questions.

Who should attend?

Whether you're new to AM or seeking to advance your knowledge, this course welcomes all interested in gaining awareness of the latest advancements and best practices in AM.

Course fees

$649 (Early-bird) – Register by Jun 30, 2025
$799 (Standard) – After Jul 01, 2025
$499 (bundle rate) – for company sending more than 3 trainees

Caution: The course may be cancelled if enrollment is low. Paid course fee will be refunded fully.

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Day 1, Sep 4	Topics
0930 – 0940	Registration
0940 – 1000	**Welcome and Introduction by ASTM Director**
1000 – 1100	**AM Overviews, Standards** • Fundamentals of Additive Manufacturing • Overview of international AM standards
1100 – 1200	**Qualification and Certification** • Fundamentals of Qualification & Certification • Overview of certification framework
1200 – 1300	Lunch Break
1300 – 1500	**AM Materials** • Metal Powders for AM • Powder storage and handling • Powder reuse
1515 – 1630	**AM Design** • Design for AM (DfAM) • Design process • CAD & Design Technologies • Design Rules

Day 2, Sep 5	Topics
0930 – 1000	**Recap of Day 1; Q & A Session**
1000 – 1200	**AM Process and Post-processing** • Process Overview • Standard terminologies for AM applications • Steps for post-processing • DfAM for reducing post-processing
1200 – 1300	Lunch Break
1300 – 1500	**Mechanical Testing for AM Materials** • Current state of standards for mechanical testing • AM specific mechanical testing standards under development • Establishing specimen property – part performance relationships
1515 – 1730	**Non-Destructive Evaluation (NDE) & In-Situ Monitoring for AM** • NDE for surface & volumetric inspections • Non-Destructive Detection of typical AM flaws • In-situ AM measurements and monitoring

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