Standards & Certification

ACCELERATING ADDITIVE MANUFACTURING

PARTICIPATE IN STANDARDS DEVELOPMENT

ASME is a leading international developer of codes and standards. To learn more, visit go.asme.org/joinCS

Participation in ASME additive manufacturing related standards activities provide opportunities to:

• Influence the quality and direction of standards
• Network with leading technical experts
• Obtain insights into technical issues and industry best practices

UNDER DEVELOPMENT

Model Based Enterprise - Developing standards or related products that provide rules, guidance, and examples for the creation, use and reuse of model-based datasets, data models, and related topics within a Model-Based Enterprise (MBE)
ASME Staff Contact: Fred Constantino l constantinof@asme.org

Monitoring, Diagnostic & Prognostic for Manufacturing Standards/Guidelines - Subcommittee on Monitoring, Diagnostic, and Prognostic Guidelines to Support Health Management and Control of Manufacturing Systems
ASME Staff Contact: Donnie Alonzo l alonzod@asme.org

Use of Additive Manufacturing for Pressure Retaining Equipment - Developing a Guide document on this topic.
ASME Staff Contact: Gerry Eisenberg l eisenbergg@asme.org

VV-50 Verification & Validation of Computational Modeling for Additive Manufacturing – Developing a Guide on verification, validation, and uncertainty quantification (VVUQ) in modeling and computational simulation for advanced manufacturing.
ASME Staff Contact: Fred Constantino | constantinof@asme.org

Y14.48 Universal Direction & Load Indicators – Developing a standard to address methods to unambiguously define and specify directions, directional requirements, loads, and loading requirements in product definition data sets.
ASME Staff Contact: Fred Constantino l constantinof@asme.org

Bioprinters Standards Committee – Developing guidelines and standards for bioprinters hardware requirements providing for standardization for bioink printers such as nozzle temperature, printing time, dispensing pressure, printing speed, and nozzle diameter, all of which directly influence the precision and accuracy of bioink deposition.
ASME Staff Contact: Luis Pulgarin l pulgarinl@asme.org

CURRENTLY FORMING

Subcommittee on Additive Manufacturing
This committee is currently in the process of forming 3 working groups to address the need for standards and guidance documents related to:
• Design for Additive Manufacturing Workflow Practices
• Documentation Requirements to Meet Government and Regulatory Certification Criteria
• Additive Manufacturing for Nonmetallic Materials Applications

If you are interested in participating. If you are interested in one or more of these three topics, please let us know by indicating your interest through https://bit.ly/3pwKQIF
ASME Staff Contact: Kate Hyam l hyamk@asme.org

STANDARDS AVAILABLE THROUGH
https://www.asme.org/codes-standards/find-codes-standards

B46.1-2019 Surface Texture includes Appendix B and K on Finish for Additive Manufacturing

B89.4.23-2020 X-ray Computed Tomography (CT) Performance Evaluation
This Standard specifies the dimensional measurement accuracy of industrial X-ray computed tomography (CT) systems for length, size, and form measurands of sphere-based test objects made of homogeneous materials.

Y14.46-2017 Product Definition for Additive Manufacturing
- Standardization of dimensioning and tolerancing methods, systems, and indications on engineering product definition digital data sets promotes uniform practices and should facilitate a common interpretation of these requirements.

Y14.47-2019 Model Organization Practice Establishes a common practice to improve design productivity and to deliver consistent data content and structure to consumers of the data.