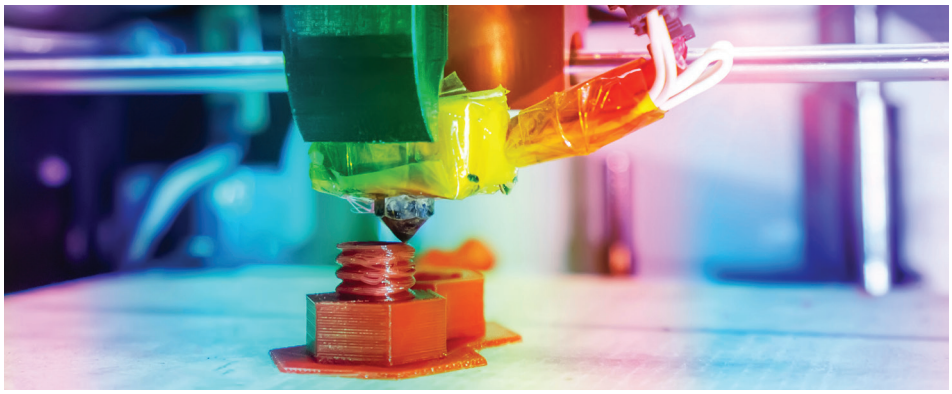


Additive Manufacturing On-Demand Course

Additive manufacturing, commonly known as 3D printing, is changing the way manufacturers design, prototype, and produce parts. This self-paced, on-demand online course provides a practical introduction to additive manufacturing technologies, helping participants understand how these processes are used to drive innovation, reduce lead times, and create complex components that would be difficult or impossible to manufacture with traditional methods.

Designed for engineers, technicians, product designers, manufacturing professionals, and business leaders, this flexible online course explores the fundamentals of additive manufacturing, its applications across industries, and the opportunities and challenges of integrating 3D printing into today's manufacturing environment. Participants can complete the course at their own pace while gaining practical knowledge they can immediately apply in the workplace.

Participants will:

- Understand the fundamentals of additive manufacturing and how it differs from traditional manufacturing processes.
- Explore the most common additive manufacturing technologies and materials.
- Identify applications where additive manufacturing provides the greatest value.
- Learn key design considerations for additive manufacturing (DfAM).
- Recognize the advantages, limitations, and quality considerations of 3D printing.
- Evaluate opportunities to incorporate additive manufacturing into product development and production.

We Can Help.

- Advanced Manufacturing & Technology Deployment
- Business Growth, Innovation & Marketing
- Business & Operational Assessments
- Cybersecurity Strategies
- Defense Industry Initiatives
- Environment, Energy & Sustainability Services
- Evaluation Services & Resource Development
- Industrial & Systems Engineering
- Instructional Design
- Leadership & Organizational Development
- Management Systems & Quality
- Process Optimization & LEAN
- Project Management
- Southeastern OSHA Training Institute Education Center
- Supply Chain & Supplier Matching
- Workplace Health & Safety

Topics Covered:

- Introduction to Additive Manufacturing
- Additive Manufacturing Processes and Technologies
- Materials Used in Additive Manufacturing
- Design for Additive Manufacturing (DfAM)
- Applications Across Manufacturing Industries
- Advantages and Limitations
- Quality, Inspection, and Post-Processing
- Business Considerations and Implementation Strategies
- Future Trends in Additive Manufacturing

Course Format:

- Self-paced, on-demand online course (approximately 2–3 hours to complete). **ncstateies.com/additive-course**

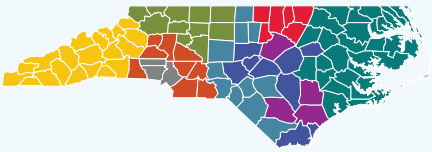
Recommended For:

Engineers, manufacturing professionals, product designers, production managers, quality professionals, technical staff, business leaders, students, and anyone interested in understanding how additive manufacturing can improve product development, manufacturing flexibility, and innovation.

Connect with your Regional Manager to begin the conversation. ncstateies.com/RM

Connect With Your Regional Manager

ncstateies.com/RM



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NC State University Industry Extension Services, established in 1955 as the outreach team for the NC State University College of Engineering, provides resources, tools and customized training programs to help businesses survive, thrive and grow.

ies.ncsu.edu **@NCStateIES**