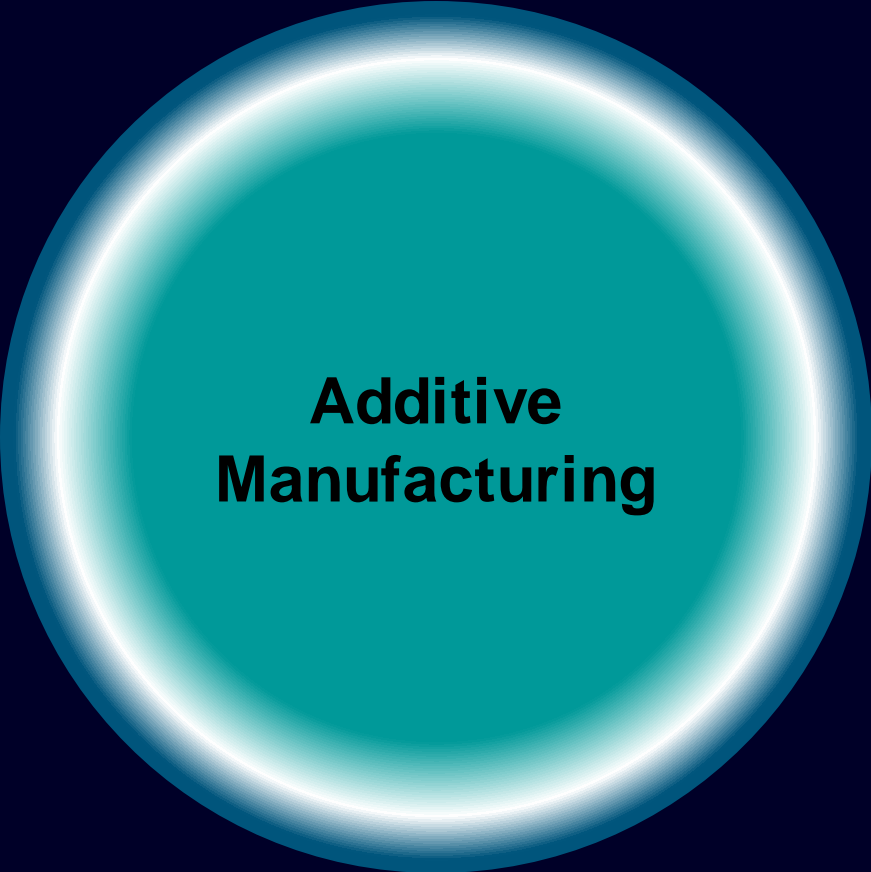


# Xcelerator Academy Learning Maps

## Your learning: At a Glance



Use our interactive learning maps as a guide to navigate through your content based upon your role then click on the icons throughout to learn more about your delivery options.



Select a role below



### LEARN THE ESSENTIALS

**Additive Manufacturing Designer**

Designed to provide additive manufacturers the foundation they need to model components intended to be additively manufactured

### LEARN PLANAR ESSENTIALS

**Planar (powder bed) Manufacturing Engineer**

Learn how to organize build trays, provide supporting structures, develop and simulate programs for powder bed additive machines and other planar additive processes.

### LEARN DEPOSITION OPERATIONS

**Multi-axis Deposition Manufacturing Engineer**

Provide manufacturers the foundation they need to program deposition operations in NX CAM to support additive manufacturing on various deposition machines

### GET CERTIFIED

**Additive Manufacturing Designer Associate Certification**

Choose your learning and take your exam to complete the Additive Manufacturing Designer Associate certification.

# Additive Manufacturing Designer → At a Glance

LEARN THE ESSENTIALS

**Additive Manufacturing Designer**

- Introduction to Additive Manufacturing
- Component Design for Additive Manufacturing
- Polygon Modeling and Reverse Engineering

Use Additive Manufacturing Designer!

## LEARN PLANAR ESSENTIALS

**Planar (powder bed) Mfg. Engineer**

- NX Additive Manufacturing - Planar Additive
- Maximizing Your Build Success with AM Build Optimizer
- Additive Manufacturing Process Simulation

Learn how to simulate programs for powder bed additive machines


## LEARN DEPOSITION OPERATIONS

**Multi-axis Deposition Mfg. Engineer**



- Managing NC Programming Data
- Multi-axis Additive Manufacturing

Support additive manufacturing on various deposition machines

**Additive Mfg. Designer Associate Certification**



[Click for detailed certification course list](#)

 Instructor-led training	 On-demand training library	 Xcelerator Academy Membership	 Learning Journey	 Standalone Certification Exam	 Optional
**Virtual lab environment included in offer		Add-on vLab hours available for purchase	**Virtual lab environment included in offer		



SIEMENS

# Course List: Additive Manufacturing Designer Associate Certification



5 Chapters

LEARNING PATH

### Introduction to Additive Manufacturing

Overview of the processes and strategies associated with additive manufacturing in the context of the product development lifecycle.



PREVIEW CHAPTER  
Intro to Additive Manufacturing Processes

Introduction to Additive Manufacturing Processes

Additive Manufacturing in NX

Additive Manufacturing and the Product Development Lifecycle

Additive Manufacturing Tradeoffs and Strategy

7 Chapters

LEARNING PATH

### Component Design for Additive Manufacturing

This learning path will develop skills within NX design specifically for the design of components for additive manufacturing.



PREVIEW CHAPTER  
Introduction to Component Design for Additive Manufacture

Introduction to Component Design for Additive Manufacture

Useful Modeling Techniques for Additive Manufacturing

Designing with Lattices

Designing with Scanned Geometry


Generative Design and Topology Optimization

7 Chapters

LEARNING PATH

### Polygon Modeling and Reverse Engineering (Current)

Learn to create, modify, and improve faceted models using the NX Polygon Modeling capabilities



PREVIEW CHAPTER  
Introduction to Polygon Modeling

Introduction to Polygon Modeling – 1953

Using the Polygon Modeling Task Environment – 1953

Using the Polygon Modeling Ribbon Bar – 1953

Using the Polygon Modeling Morph Mesh Task Environment – 1953

Reverse Engineering - 1953

