AXIM

Q1 2027 Training Catalog



Q1 2027 TRAINING · JANUARY TO MARCH · SIX CENTERS

28 courses. Taught by the engineers who answer our support line.

Train on the part.

DENVER · NASHVILLE · COLUMBUS
SACRAMENTO · PHOENIX · CLEVELAND

AXIM · DENVER · SINCE 2012

Train on the part.

Every course in this catalog is sold on one promise: what your person can do on the Monday after. We write that line first on every page, in the words your shop uses, before the days and the price. Pick by outcome. If the outcome isn't the job you need done, the course isn't the right one, and we'll tell you which is.

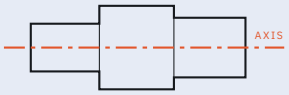
SINCE 2012

Axim has sold and supported CAD seats and 3D printers since 2012, starting with one application engineer and a demo laptop in Denver; today it trains engineers in six cities, and every course is still taught by someone who answers the support line.

WHY WE TRAIN THIS WAY

Axim is the reseller that trains on the part, not the software. Anyone can sell a seat or a printer. Axim's argument is what happens on the Monday after: the drawing that passes review, the toolpath that runs without edits at the control, the printed fixture that fits.

WHAT THE NAME MEANS



An axis is the line a part is built, measured and machined around. Axim is named for it. Ours is simple: if it doesn't change what your person can make, we don't teach it.

IN THIS CATALOG

	Six centers, four formats	3
01	Design Essentials	4
02	Drawings & Detailing	7
03	Simulation	10
04	Machining (CAM)	13
05	3D Printing & Scanning	16
	Certification prep	19
	Bundles	20
	Path-picker	21
	All 28 courses at a glance	23

How to read a course entry

Example: DE-110, page 5. Every one of the 28 reads in this order.

4 **$950**

LIST PRICE PER SEAT

2 DAYS

5 FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

1 **DE-110**

Assembly Modeling & Top-Down Design

2 AFTER THIS COURSE YOU CAN

Mate an assembly so it moves like the real mechanism, catch interference before the prototype does, and drive part sizes from one layout sketch so a change in one place updates every part.

3 WHO IT'S FOR

Designers who build parts with confidence but fight their assemblies.

PREREQUISITE

DE-101 or equivalent

6 Q1 2027 DATES

Denver	Jan 28–29	**Nashville**	Feb 11–12
Columbus	Feb 25–26	**Sacramento**	Mar 11–12
Live online	Mar 30–31		

1. Course code and name. The letters name the track.
2. The outcome. What your person can do afterward, and the line we sell the course on.
3. Who it's for, then the prerequisite.
4. List price, per seat, in US dollars. Days beneath it.
5. Formats offered this quarter, filled in blue.
6. Q1 2027 dates by city. Live online dates in blue.

WHERE WE TEACH

Six centers. One curriculum.

38 application engineers on staff; every instructor has run production work. Classrooms seat 12 at most; CAM and metal-printing labs seat 8. Every center has full CAD, CAM and simulation workstations and a desktop print lab.

Denver

14 SESSIONS IN Q1

Headquarters since 2012. Simulation lab and the largest classroom floor.

HEADQUARTERS · CAD · CAM · SIMULATION · DESKTOP PRINT LAB

Nashville

13 SESSIONS IN Q1

Automotive and consumer-product teams. Desktop print farm of 14 machines.

CAD · CAM · SIMULATION · DESKTOP PRINT LAB

Columbus

14 SESSIONS IN Q1

CAM center. 5-axis cell and a mill-turn simulation bench.

5-AXIS CELL, LIVE DEMO MACHINE · CAD · CAM · SIMULATION · DESKTOP PRINT LAB

Sacramento

12 SESSIONS IN Q1

Medical device and ag equipment. Scanning and reverse-engineering lab.

SCANNING LAB · CAD · CAM · SIMULATION · DESKTOP PRINT LAB

Phoenix

15 SESSIONS IN Q1

Aerospace and semiconductor tooling. Metal powder-bed cell and 5-axis cell.

METAL POWDER-BED · 5-AXIS CELL, LIVE DEMO MACHINE · CAD · CAM · SIMULATION · DESKTOP PRINT LAB

Cleveland

15 SESSIONS IN Q1

Job shops and heavy fabrication. Metal printing, 5-axis and sheet-metal lab.

METAL POWDER-BED · 5-AXIS CELL, LIVE DEMO MACHINE · CAD · CAM · SIMULATION · DESKTOP PRINT LAB

Scanners travel from Sacramento to every center for PR-530. Live online: 13 sessions this quarter, open to every city.

C Classroom

At an Axim center, 8:30 a.m. to 4:30 p.m. local time. Workstation, courseware and lunch included.

L Live online

Instructor-led over video, 11:00 a.m. to 5:00 p.m. Eastern (10:00 Central, 9:00 Mountain, 8:00 Pacific). Same labs, same instructor, remote workstation provided.

S Self-paced

On demand. No scheduled dates: start any day, 90 days of access. Days shown are the working time the course takes.

A At your site

An Axim instructor at your facility for a group of 6 or more, at list price per seat plus instructor travel at cost. Dates by request; not on the city calendar.

TRANSFERS AND REFUNDS

Transfer or full refund up to 10 business days before a class. Inside 10 days, move to another date or send a colleague in your place.

RETAKES

Retake any classroom or live online course free within 12 months, seat permitting.

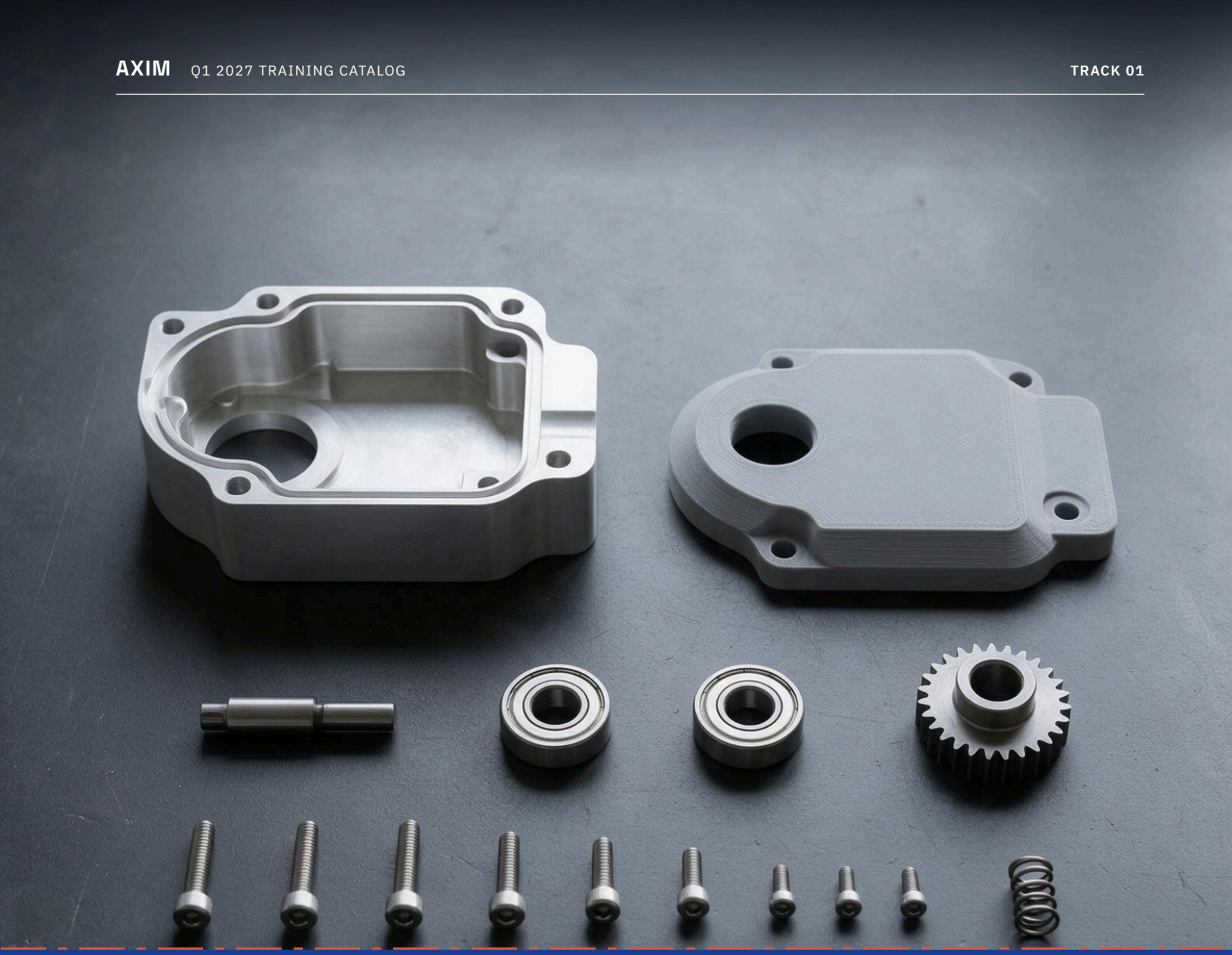
CERTIFICATION EXAMS

Exam fees are paid to the certifying body and are not included in any list price. If you don't pass, retake the prep course free within 6 months.

REGISTER

(800) 555-0142

Mon–Fri, 7:00 a.m. to 6:00 p.m. Mountain. List prices are per seat, USD.



01

TRACK 01 · 6 COURSES

Design Essentials

From the first sketch to a model that survives a design change.

IN THIS TRACK

CODE	COURSE	DAYS	PRICE	PAGE
DE-101	Parametric Modeling Foundations	3	$1,350	5
DE-102	CAD Quick Start: Viewing, Measuring & Markup SELF-PACED	0.5	$95	5
DE-110	Assembly Modeling & Top-Down Design	2	$950	5
DE-120	Surface Modeling for Product Design	3	$1,650	6
DE-130	Associate-Level Mechanical CAD Certification Prep CERT PREP	1	$450	6
DE-140	Professional-Level Mechanical Design Certification Prep CERT PREP	2	$950	6

$1,350
LIST PRICE PER SEAT

3 DAYS

FORMAT
- [x] Classroom
- [x] Live online
- [ ] Self-paced
- [x] At your site

DE-101

Parametric Modeling Foundations

AFTER THIS COURSE YOU CAN

Build fully defined parts from a dimensioned print, put them together in a working assembly, and change a key dimension so the whole model updates without a single rebuild error.

WHO IT'S FOR
New designers and engineers in their first months on mechanical CAD, and drafters moving over from 2D.

PREREQUISITE
None. DE-102 recommended.

Q1 2027 DATES

Denver	Jan 12–14	**Nashville**	Jan 19–21	**Sacramento**	Jan 26–28
Columbus	Feb 2–4	**Phoenix**	Feb 9–11	**Live online**	Feb 23–25
Cleveland	Mar 2–4	**Denver**	Mar 16–18	**Live online**	Mar 23–25

$95
LIST PRICE PER SEAT

0.5 DAYS

FORMAT
- [ ] Classroom
- [ ] Live online
- [x] Self-paced
- [ ] At your site

DE-102 SELF-PACED

CAD Quick Start: Viewing, Measuring & Markup

AFTER THIS COURSE YOU CAN

Open any model or drawing engineering sends, measure and section it, and send back a markup that points to exactly which feature is wrong.

WHO IT'S FOR
Buyers, quality inspectors, shop leads and managers who receive models and drawings but don't build them.

PREREQUISITE
None

WHEN

On demand. No scheduled dates. Start any day, 90 days of access.

$950
LIST PRICE PER SEAT

2 DAYS

FORMAT
- [x] Classroom
- [x] Live online
- [ ] Self-paced
- [ ] At your site

DE-110

Assembly Modeling & Top-Down Design

AFTER THIS COURSE YOU CAN

Mate an assembly so it moves like the real mechanism, catch interference before the prototype does, and drive part sizes from one layout sketch so a change in one place updates every part.

WHO IT'S FOR
Designers who build parts with confidence but fight their assemblies.

PREREQUISITE
DE-101 or equivalent

Q1 2027 DATES

Denver	Jan 28–29	**Nashville**	Feb 11–12	**Columbus**	Feb 25–26
Sacramento	Mar 11–12	**Live online**	Mar 30–31		

DE-120

Surface Modeling for Product Design

$1,650 LIST PRICE PER SEAT — **3** DAYS

AFTER THIS COURSE YOU CAN

Build curvature-continuous surfaces, knit them into a watertight solid, and prove every transition with zebra and curvature checks before the tooling shop quotes it.

WHO IT'S FOR

Industrial designers and senior product designers shaping housings, handles and consumer parts.

PREREQUISITE

DE-101 and one year of daily CAD

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Sacramento	Feb 23–25
Nashville	Mar 9–11

DE-130 CERT PREP

Associate-Level Mechanical CAD Certification Prep

$450 LIST PRICE PER SEAT — **1** DAY

AFTER THIS COURSE YOU CAN

Sit the associate-level exam having already worked a full timed mock under exam conditions, with your weak topics found and drilled.

WHO IT'S FOR

Designers with about three months of daily CAD use, usually right after DE-101 and DE-110.

PREREQUISITE

DE-101

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Live online	Jan 29
Denver	Feb 19
Phoenix	Mar 5
Columbus	Mar 12
Cleveland	Mar 26

DE-140 CERT PREP

Professional-Level Mechanical Design Certification Prep

$950 LIST PRICE PER SEAT — **2** DAYS

AFTER THIS COURSE YOU CAN

Work the professional exam's multi-stage modeling problems at exam speed: update a model mid-problem, recover cleanly from a changed dimension, and report mass properties correct to the decimal.

WHO IT'S FOR

Designers with a year or more in CAD who model complex parts and assemblies every day.

PREREQUISITE

DE-110, or associate-level certification

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

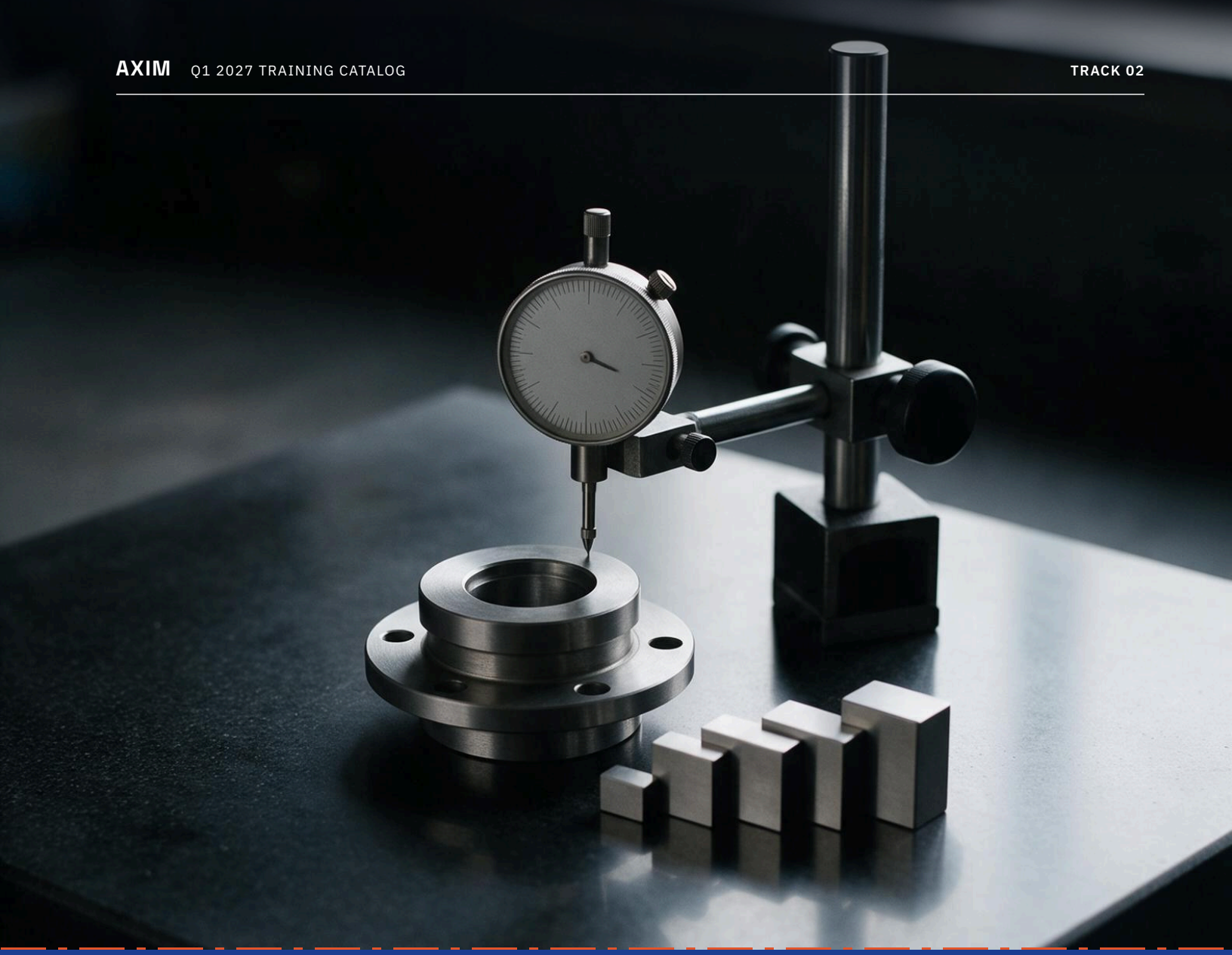
Q1 2027 DATES

Cleveland	Feb 18–19
Live online	Mar 11–12
Denver	Mar 25–26

Track 01, city by city

Every Q1 2027 session in Design Essentials, by where it runs. Live online in blue.

CODE	COURSE	DAYS	PRICE	DENVER	NASHVILLE	COLUMBUS	SACRAMENTO	PHOENIX	CLEVELAND	LIVE ONLINE
DE-101	**Parametric Modeling Foundations**	3	**$1,350**	Jan 12–14 Mar 16–18	Jan 19–21	Feb 2–4	Jan 26–28	Feb 9–11	Mar 2–4	**Feb 23–25** **Mar 23–25**
DE-102	**CAD Quick Start: Viewing, Measuring & Markup**	0.5	**$95**	On demand						
DE-110	**Assembly Modeling & Top-Down Design**	2	**$950**	Jan 28–29	Feb 11–12	Feb 25–26	Mar 11–12	·	·	**Mar 30–31**
DE-120	**Surface Modeling for Product Design**	3	**$1,650**	·	Mar 9–11	·	Feb 23–25	·	·	·
DE-130	**Associate-Level Mechanical CAD Certification Prep**	1	**$450**	Feb 19	·	Mar 12	·	Mar 5	Mar 26	**Jan 29**
DE-140	**Professional-Level Mechanical Design Certification Prep**	2	**$950**	Mar 25–26	·	·	·	·	Feb 18–19	**Mar 11–12**



02

TRACK 02 · 5 COURSES

Drawings & Detailing

The drawing is the contract. Make it one the shop can build from.

IN THIS TRACK

CODE	COURSE	DAYS	PRICE	PAGE
DD-201	Production Drawings That Pass Review	2	$895	8
DD-210	GD&T & ASME Y14.5 Detailing	3	$1,450	8
DD-220	Tolerance Stack-Up Analysis	2	$1,050	8
DD-230	Sheet Metal Flat Patterns & Weldment Drawings	2	$950	9
DD-240	GD&T Professional Certification Prep CERT PREP	2	$995	9

DD-201

Production Drawings That Pass Review

AFTER THIS COURSE YOU CAN

Turn a model into a drawing package the checker signs on the first pass: the right views and sections, dimensions placed for manufacture, a live BOM with balloons, and a revision block your change process can trust.

WHO IT'S FOR

New designers and drafters who make the drawings the shop builds from.

PREREQUISITE

DE-101 or equivalent

Q1 2027 DATES

Columbus	Jan 12–13	**Denver**	Feb 2–3	**Sacramento**	Feb 16–17
Live online	Feb 16–17	**Nashville**	Feb 23–24	**Phoenix**	Mar 23–24

$895

LIST PRICE PER SEAT

2 DAYS

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ■ **At your site**

DD-210

GD&T & ASME Y14.5 Detailing

AFTER THIS COURSE YOU CAN

Pick datums that match how the part is fixtured and inspected, apply position, profile and runout with the right modifiers, and calculate bonus tolerance straight from a feature control frame.

WHO IT'S FOR

Designers, manufacturing engineers and quality inspectors who write or read tolerances.

PREREQUISITE

Able to read a standard engineering drawing

Q1 2027 DATES

Columbus	Jan 26–28	**Cleveland**	Feb 9–11	**Phoenix**	Feb 23–25
Denver	Mar 9–11	**Nashville**	Mar 23–25		

$1,450

LIST PRICE PER SEAT

3 DAYS

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ■ **At your site**

DD-220

Tolerance Stack-Up Analysis

AFTER THIS COURSE YOU CAN

Run worst-case and RSS stack-ups on a real assembly loop, find the two or three tolerances actually driving the gap, and open up the rest to take cost out of machining.

WHO IT'S FOR

Senior designers and engineers who own fit and function across an assembly.

PREREQUISITE

DD-210 or working GD&T knowledge

Q1 2027 DATES

Live online	Feb 18–19	**Cleveland**	Mar 11–12	**Sacramento**	Mar 18–19

$1,050

LIST PRICE PER SEAT

2 DAYS

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

DD-230

Sheet Metal Flat Patterns & Weldment Drawings

$950
LIST PRICE PER SEAT

2 DAYS

AFTER THIS COURSE YOU CAN

Model sheet metal with your shop's real bend tables so the flat pattern bends right on the brake the first time, and release weldment drawings with cut lists the saw operator works straight from.

WHO IT'S FOR

Designers and fabrication engineers working in sheet metal, enclosures and structural frames.

PREREQUISITE

DE-101 or equivalent

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Cleveland	Jan 21–22
Nashville	Jan 28–29
Phoenix	Mar 11–12

DD-240 CERT PREP

GD&T Professional Certification Prep

$995
LIST PRICE PER SEAT

2 DAYS

AFTER THIS COURSE YOU CAN

Answer the professional exam's interpretation questions at speed, including composite position, profile with datum shift and simultaneous requirements.

WHO IT'S FOR

Designers and inspectors who have finished DD-210 or apply GD&T every day.

PREREQUISITE

DD-210

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

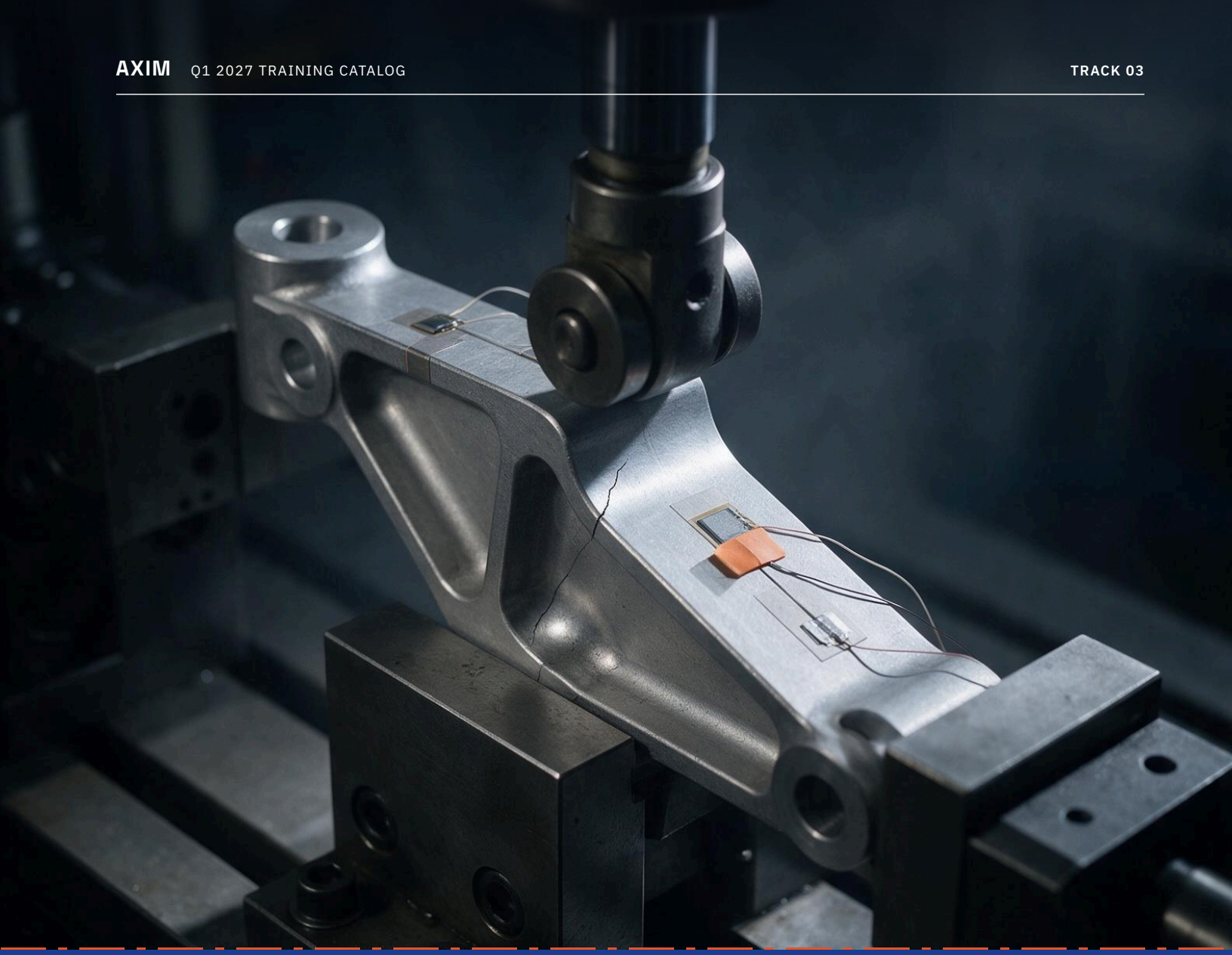
Q1 2027 DATES

Live online	Mar 8–9
Columbus	Mar 18–19
Sacramento	Mar 25–26

Track 02, city by city

Every Q1 2027 session in Drawings & Detailing, by where it runs. Live online in blue.

CODE	COURSE	DAYS	PRICE	DENVER	NASHVILLE	COLUMBUS	SACRAMENTO	PHOENIX	CLEVELAND	LIVE ONLINE
DD-201	**Production Drawings That Pass Review**	2	**$895**	Feb 2–3	Feb 23–24	Jan 12–13	Feb 16–17	Mar 23–24	·	**Feb 16–17**
DD-210	**GD&T & ASME Y14.5 Detailing**	3	**$1,450**	Mar 9–11	Mar 23–25	Jan 26–28	·	Feb 23–25	Feb 9–11	·
DD-220	**Tolerance Stack-Up Analysis**	2	**$1,050**	·	·	·	Mar 18–19	·	Mar 11–12	**Feb 18–19**
DD-230	**Sheet Metal Flat Patterns & Weldment Drawings**	2	**$950**	·	Jan 28–29	·	·	Mar 11–12	Jan 21–22	·
DD-240	**GD&T Professional Certification Prep**	2	**$995**	·	·	Mar 18–19	Mar 25–26	·	·	**Mar 8–9**



03

TRACK 03 · 5 COURSES

Simulation

Break it on the screen, not on the test stand.

IN THIS TRACK

CODE	COURSE	DAYS	PRICE	PAGE
SM-301	Static & Thermal Simulation Essentials	3	**$1,650**	11
SM-310	Simulation Quick Check for Designers SELF-PACED	1	**$350**	11
SM-320	Nonlinear & Contact Analysis	3	**$1,950**	11
SM-330	Fatigue & Vibration Analysis	3	**$1,950**	12
SM-340	Flow Simulation for Mechanical Designers	3	**$1,850**	12

SM-301

Static & Thermal Simulation Essentials

$1,650
LIST PRICE PER SEAT

3 DAYS

FORMAT
- [x] Classroom
- [x] Live online
- [ ] Self-paced
- [ ] At your site

AFTER THIS COURSE YOU CAN

Set up a linear static study with fixtures and loads that match the real part, refine the mesh until results converge, read stress and factor of safety honestly, and run a steady-state thermal study on a heat-loaded part.

WHO IT'S FOR
Design engineers running their own analysis for the first time.

PREREQUISITE
DE-101 and a first course in strength of materials

Q1 2027 DATES

Denver	Jan 19–21	**Phoenix**	Jan 26–28	**Sacramento**	Feb 2–4
Columbus	Feb 16–18	**Live online**	Mar 2–4	**Cleveland**	Mar 16–18

$350
LIST PRICE PER SEAT

1 DAY

FORMAT
- [ ] Classroom
- [ ] Live online
- [x] Self-paced
- [ ] At your site

SM-310 SELF-PACED

Simulation Quick Check for Designers

AFTER THIS COURSE YOU CAN

Run a single-part stress check inside your CAD, spot a false result from a singularity or a wrong fixture, and tell when the part needs a full analysis.

WHO IT'S FOR
Designers who want a first-pass stress check before a part goes to an analyst.

PREREQUISITE
DE-101

WHEN

On demand. No scheduled dates. Start any day, 90 days of access.

$1,950
LIST PRICE PER SEAT

3 DAYS

FORMAT
- [x] Classroom
- [ ] Live online
- [ ] Self-paced
- [ ] At your site

SM-320

Nonlinear & Contact Analysis

AFTER THIS COURSE YOU CAN

Model bolted joints with preload, contact between parts, plastic yield and large deflection, and get a nonlinear study to converge without guessing at solver settings.

WHO IT'S FOR
Analysts and senior engineers who have finished SM-301 or have equivalent experience.

PREREQUISITE
SM-301

Q1 2027 DATES

Denver	Feb 23–25	**Sacramento**	Mar 22–24

SM-330

Fatigue & Vibration Analysis

$1,950
LIST PRICE PER SEAT

3 DAYS

AFTER THIS COURSE YOU CAN

Find natural frequencies and mode shapes, run harmonic and random vibration studies, and estimate fatigue life from S-N data so you redesign before the field test cracks the part.

WHO IT'S FOR

Engineers whose parts see cyclic loads, motor vibration, road or transport loads.

PREREQUISITE

SM-301

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Live online	Feb 9–11
Denver	Mar 2–4
Phoenix	Mar 16–18

SM-340

Flow Simulation for Mechanical Designers

$1,850
LIST PRICE PER SEAT

3 DAYS

AFTER THIS COURSE YOU CAN

Calculate pressure drop through a manifold, map airflow and component temperatures inside an enclosure, and size the fan from your own results instead of the catalog curve.

WHO IT'S FOR

Engineers designing manifolds, valves, ducts and cooled electronics enclosures.

PREREQUISITE

DE-101; SM-301 recommended

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Sacramento	Jan 12–14
Denver	Feb 9–11

Track 03, city by city

Every Q1 2027 session in Simulation, by where it runs. Live online in blue.

CODE	COURSE	DAYS	PRICE	DENVER	NASHVILLE	COLUMBUS	SACRAMENTO	PHOENIX	CLEVELAND	LIVE ONLINE
SM-301	**Static & Thermal Simulation Essentials**	3	**$1,650**	Jan 19–21	·	Feb 16–18	Feb 2–4	Jan 26–28	Mar 16–18	**Mar 2–4**
SM-310	**Simulation Quick Check for Designers**	1	**$350**	On demand						
SM-320	**Nonlinear & Contact Analysis**	3	**$1,950**	Feb 23–25	·	·	Mar 22–24	·	·	·
SM-330	**Fatigue & Vibration Analysis**	3	**$1,950**	Mar 2–4	·	·	·	Mar 16–18	·	**Feb 9–11**
SM-340	**Flow Simulation for Mechanical Designers**	3	**$1,850**	Feb 9–11	·	·	Jan 12–14	·	·	·



04

TRACK 04 · 6 COURSES

Machining (CAM)

Code that runs the first time, because it was proven before it reached the spindle.

IN THIS TRACK

CODE	COURSE	DAYS	PRICE	PAGE
CM-401	2.5-Axis Milling Toolpaths	3	**$1,450**	14
CM-410	3-Axis Surface Machining for Molds & Dies	3	**$1,650**	14
CM-420	Turning & Mill-Turn Programming	3	**$1,750**	15
CM-430	5-Axis CAM Programming	5	**$2,400**	14
CM-440	Post Processor Editing & G-code Verification	2	**$1,250**	15
CM-450	CAM Programmer Certification Prep CERT PREP	2	**$1,050**	15

CM-430

5-Axis CAM Programming

$2,400
LIST PRICE PER SEAT

5 DAYS

FORMAT
- [x] Classroom
- [ ] Live online
- [ ] Self-paced
- [ ] At your site

AFTER THIS COURSE YOU CAN

Program 3+2 setups and simultaneous 5-axis swarf, multi-axis contour and flowline toolpaths, control tool-axis tilt to stay clear of the fixture and head, and post a verified 5-axis program without hand-editing G-code.

WHO IT'S FOR
Experienced 3-axis programmers moving onto trunnion and head-head 5-axis machines.

PREREQUISITE
CM-401 and six months of 3-axis programming

Q1 2027 DATES

Phoenix	Feb 1–5	**Cleveland**	Feb 22–26	**Columbus**	Mar 22–26

$1,450
LIST PRICE PER SEAT

3 DAYS

FORMAT
- [x] Classroom
- [ ] Live online
- [ ] Self-paced
- [x] At your site

CM-401

2.5-Axis Milling Toolpaths

AFTER THIS COURSE YOU CAN

Set stock, work offsets and tools, program facing, adaptive pocketing, contours and drill cycles, and post a 3-axis program that runs clean in machine simulation before it touches the vise.

WHO IT'S FOR
Machinists moving into programming, and programmers new to CAD-integrated CAM.

PREREQUISITE
Able to read a part print and set up a mill

Q1 2027 DATES

Cleveland	Jan 12–14	**Phoenix**	Jan 12–14	**Columbus**	Jan 19–21
Nashville	Feb 2–4	**Denver**	Feb 16–18	**Sacramento**	Mar 2–4

$1,650
LIST PRICE PER SEAT

3 DAYS

FORMAT
- [x] Classroom
- [ ] Live online
- [ ] Self-paced
- [ ] At your site

CM-410

3-Axis Surface Machining for Molds & Dies

AFTER THIS COURSE YOU CAN

Rough with adaptive clearing, pick up rest material with smaller tools, and finish with scallop and steep-and-shallow strategies to a specified surface finish, with far less bench polishing.

WHO IT'S FOR
Mold, die and prototype programmers cutting contoured surfaces.

PREREQUISITE
CM-401

Q1 2027 DATES

Columbus	Feb 9–11	**Cleveland**	Mar 8–10	**Nashville**	Mar 16–18

CM-420

Turning & Mill-Turn Programming

$1,750 LIST PRICE PER SEAT · **3** DAYS

AFTER THIS COURSE YOU CAN

Program OD and ID turning, grooving and threading, add live-tool milling, and hand the part to the sub-spindle for back work, all in one verified program.

WHO IT'S FOR

Lathe programmers and setup machinists running live-tool and twin-spindle machines.

PREREQUISITE

CM-401, or a year programming lathes at the control

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Cleveland	Feb 2–4
Columbus	Mar 2–4
Phoenix	Mar 2–4

CM-440

Post Processor Editing & G-code Verification

$1,250 LIST PRICE PER SEAT · **2** DAYS

AFTER THIS COURSE YOU CAN

Read and edit your post processor to change safe-start blocks, coolant and tool-change output for your machine, then verify the G-code in full machine simulation so edits stop happening at the control.

WHO IT'S FOR

Programmers and CNC leads who still hand-edit code at the control.

PREREQUISITE

CM-401

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Live online	Jan 26–27
Columbus	Mar 9–10
Cleveland	Mar 30–31

CM-450 CERT PREP

CAM Programmer Certification Prep

$1,050 LIST PRICE PER SEAT · **2** DAYS

AFTER THIS COURSE YOU CAN

Program the exam's milling and turning parts to time, from stock setup to posted code, with feeds and speeds you can defend.

WHO IT'S FOR

Programmers who have finished CM-401 and program every day.

PREREQUISITE

CM-401 and six months of daily programming

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ☐ At your site

Q1 2027 DATES

Cleveland	Mar 23–24
Columbus	Mar 30–31
Phoenix	Mar 30–31

Track 04, city by city

Every Q1 2027 session in Machining (CAM), by where it runs. Live online in blue.

CODE	COURSE	DAYS	PRICE	DENVER	NASHVILLE	COLUMBUS	SACRAMENTO	PHOENIX	CLEVELAND	LIVE ONLINE
CM-401	**2.5-Axis Milling Toolpaths**	3	**$1,450**	Feb 16–18	Feb 2–4	Jan 19–21	Mar 2–4	Jan 12–14	Jan 12–14	·
CM-410	**3-Axis Surface Machining for Molds & Dies**	3	**$1,650**	·	Mar 16–18	Feb 9–11	·	·	Mar 8–10	·
CM-420	**Turning & Mill-Turn Programming**	3	**$1,750**	·	·	Mar 2–4	·	Mar 2–4	Feb 2–4	·
CM-430	**5-Axis CAM Programming**	5	**$2,400**	·	·	Mar 22–26	·	Feb 1–5	Feb 22–26	·
CM-440	**Post Processor Editing & G-code Verification**	2	**$1,250**	·	·	Mar 9–10	·	·	Mar 30–31	**Jan 26–27**
CM-450	**CAM Programmer Certification Prep**	2	**$1,050**	·	·	Mar 30–31	·	Mar 30–31	Mar 23–24	·



05

TRACK 05 · 6 COURSES

3D Printing & Scanning

Print the fixture tonight. Scan the part nobody drew.

IN THIS TRACK

CODE	COURSE	DAYS	PRICE	PAGE
PR-501	Desktop 3D Printing for Engineering Teams	1	$450	17
PR-510	Design for Additive Manufacturing	2	$1,050	17
PR-520	SLS & Metal Part Prep	3	$1,850	17
PR-530	3D Scanning & Reverse Engineering	2	$1,150	18
PR-540	Printer Care & Calibration SELF-PACED	1	$195	18
PR-550	Additive Manufacturing Certification Prep CERT PREP	2	$950	18

PR-501

Desktop 3D Printing for Engineering Teams

AFTER THIS COURSE YOU CAN

Orient, support and slice parts so jigs, fixtures and prototypes print right and fit the first time, and pick the material and infill for the job instead of the default.

WHO IT'S FOR

Designers, engineers and shop staff putting a desktop FDM or resin printer to work for the first time.

PREREQUISITE

None

Q1 2027 DATES

Nashville	Jan 15	**Denver**	Jan 22	**Sacramento**	Feb 5
Cleveland	Feb 5	**Columbus**	Feb 19	**Nashville**	Mar 12
Phoenix	Mar 19				

$450
LIST PRICE PER SEAT

1 DAY

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ■ **At your site**

PR-510

Design for Additive Manufacturing

AFTER THIS COURSE YOU CAN

Redesign a machined assembly as one printed part, hold self-supporting angles and minimum walls for each process, and add lattice infill where it cuts weight without cutting stiffness.

WHO IT'S FOR

Senior designers moving production parts or tooling onto printers.

PREREQUISITE

DE-101; PR-501 recommended

Q1 2027 DATES

Nashville	Feb 16–17	**Phoenix**	Mar 9–10	**Live online**	Mar 16–17

$1,050
LIST PRICE PER SEAT

2 DAYS

FORMAT

- ■ **Classroom**
- ■ **Live online**
- ☐ Self-paced
- ☐ At your site

PR-520

SLS & Metal Part Prep

AFTER THIS COURSE YOU CAN

Nest a full SLS build for throughput, orient and support a metal powder-bed part to control distortion, and plan stress relief, support removal and machining stock before the build starts.

WHO IT'S FOR

Engineers and technicians running powder-bed polymer or metal printers.

PREREQUISITE

PR-510 or six months on an industrial printer

Q1 2027 DATES

Cleveland	Jan 26–28	**Phoenix**	Feb 16–18

$1,850
LIST PRICE PER SEAT

3 DAYS

FORMAT

- ■ **Classroom**
- ☐ Live online
- ☐ Self-paced
- ☐ At your site

PR-530

3D Scanning & Reverse Engineering

$1,150 LIST PRICE PER SEAT · **2** DAYS

AFTER THIS COURSE YOU CAN

Scan a part, clean and align the mesh, rebuild it as an editable parametric model, and report deviation from nominal as a color map an inspector can sign.

WHO IT'S FOR

Engineers and quality staff who need CAD for parts that were never drawn, or proof that a part matches its CAD.

PREREQUISITE

DE-101 or equivalent

FORMAT

- [x] **Classroom**
- [ ] Live online
- [ ] Self-paced
- [x] **At your site**

Q1 2027 DATES

Sacramento	Jan 21–22
Nashville	Mar 4–5
Denver	Mar 30–31

PR-540 SELF-PACED

Printer Care & Calibration

$195 LIST PRICE PER SEAT · **1** DAY

AFTER THIS COURSE YOU CAN

Run the daily, weekly and monthly maintenance, recalibrate bed level and extrusion, swap nozzles and resin tanks, and log failures so you can tell a bad file from a bad machine.

WHO IT'S FOR

Whoever keeps the printers running: technicians, lab leads, the engineer who drew the short straw.

PREREQUISITE

None

FORMAT

- [ ] Classroom
- [ ] Live online
- [x] **Self-paced**
- [ ] At your site

WHEN

On demand. No scheduled dates. Start any day, 90 days of access.

PR-550 CERT PREP

Additive Manufacturing Certification Prep

$950 LIST PRICE PER SEAT · **2** DAYS

AFTER THIS COURSE YOU CAN

Answer the exam's process, material and design questions across FDM, resin, SLS and metal, and work its part-prep scenarios to time.

WHO IT'S FOR

Engineers and technicians with a year on printers, often after PR-510 or PR-520.

PREREQUISITE

One year of hands-on printing

FORMAT

- [x] **Classroom**
- [x] **Live online**
- [ ] Self-paced
- [ ] At your site

Q1 2027 DATES

Live online	Mar 18–19
Phoenix	Mar 25–26
Nashville	Mar 30–31

Track 05, city by city

Every Q1 2027 session in 3D Printing & Scanning, by where it runs. Live online in blue.

CODE	COURSE	DAYS	PRICE	DENVER	NASHVILLE	COLUMBUS	SACRAMENTO	PHOENIX	CLEVELAND	LIVE ONLINE
PR-501	**Desktop 3D Printing for Engineering Teams**	1	**$450**	Jan 22	Jan 15 Mar 12	Feb 19	Feb 5	Mar 19	Feb 5	·
PR-510	**Design for Additive Manufacturing**	2	**$1,050**	·	Feb 16–17	·	·	Mar 9–10	·	**Mar 16–17**
PR-520	**SLS & Metal Part Prep**	3	**$1,850**	·	·	·	·	Feb 16–18	Jan 26–28	·
PR-530	**3D Scanning & Reverse Engineering**	2	**$1,150**	Mar 30–31	Mar 4–5	·	Jan 21–22	·	·	·
PR-540	**Printer Care & Calibration**	1	**$195**	On demand						
PR-550	**Additive Manufacturing Certification Prep**	2	**$950**	·	Mar 30–31	·	·	Mar 25–26	·	**Mar 18–19**

CERTIFICATION PREP · 5 COURSES

A certification proves it to a customer. The prep proves it to you first.

Axim preps for five industry certifications. Axim does not award them; the certifying body sets and grades the exam. Exam fees are paid to the certifying body and are not in the list price. **Fail the exam and you retake the prep course free within 6 months.**

1 Associate-level mechanical CAD certification

DE-130 · p. 6

Associate-Level Mechanical CAD Certification Prep

AFTER THE PREP YOU CAN

Sit the exam having already worked a full timed mock, weak topics drilled

FOR Designers with about three months of daily CAD

Live online Jan 29 **Denver** Feb 19 **Phoenix** Mar 5
Columbus Mar 12 **Cleveland** Mar 26

$450 LIST PRICE PER SEAT

1 DAY

C L S A

2 Professional-level mechanical design certification

DE-140 · p. 6

Professional-Level Mechanical Design Certification Prep

AFTER THE PREP YOU CAN

Solve multi-stage modeling problems at exam speed and report mass properties correct to the decimal

FOR Designers with a year or more modeling complex parts and assemblies

Cleveland Feb 18–19 **Live online Mar 11–12**
Denver Mar 25–26

$950 LIST PRICE PER SEAT

2 DAYS

C L S A

3 GD&T professional certification (ASME Y14.5-based)

DD-240 · p. 9

GD&T Professional Certification Prep

AFTER THE PREP YOU CAN

Answer interpretation questions at speed, composite position and datum shift included

FOR Designers and inspectors after DD-210

Live online Mar 8–9 **Columbus** Mar 18–19
Sacramento Mar 25–26

$995 LIST PRICE PER SEAT

2 DAYS

C L S A

4 CAM programmer certification

CM-450 · p. 15

CAM Programmer Certification Prep

AFTER THE PREP YOU CAN

Program the exam's milling and turning parts to time, setup to posted code

FOR Programmers after CM-401 with six months of daily programming

Cleveland Mar 23–24 **Columbus** Mar 30–31
Phoenix Mar 30–31

$1,050 LIST PRICE PER SEAT

2 DAYS

C L S A

5 Additive manufacturing certification

PR-550 · p. 18

Additive Manufacturing Certification Prep

AFTER THE PREP YOU CAN

Answer process, material and design questions across four processes and work part-prep scenarios to time

FOR Engineers and technicians with a year on printers

Live online Mar 18–19 **Phoenix** Mar 25–26
Nashville Mar 30–31

$950 LIST PRICE PER SEAT

2 DAYS

C L S A

Simulation has no certification prep this quarter.

Each prep course is one of the 28 and appears in its own track.

BUNDLES · 3 SEQUENCES

Three sequences we sell most, priced as one booking.

BUNDLE TERMS
One person, booked together, courses taken within 6 months of the first class. Bundle prices do not combine with other offers. Bundle prices are per person, USD.

BUNDLE A

Day-One Designer

A new hire from first sketch to a signed drawing and an associate-level exam sitting.

	COURSE	DAYS	LIST
1	DE-101 Parametric Modeling Foundations	3	$1,350
2	DE-110 Assembly Modeling & Top-Down Design	2	$950
3	DD-201 Production Drawings That Pass Review	2	$895
4	DE-130 Associate-Level Mechanical CAD Certification Prep	1	$450
	Components total	**8**	**$3,645**

$1,350 + $950 + $895 + $450 = $3,645

LIST $3,645

BUNDLE $3,095

$3,095
BUNDLE PRICE, PER PERSON

Save $550

You save $550 ($3,645 – $3,095), which is 15.1% off list.

BUNDLE B

Spindle-Ready Programmer

From 2.5-axis toolpaths to verified simultaneous 5-axis code, with the post under your own control in between.

	COURSE	DAYS	LIST
1	CM-401 2.5-Axis Milling Toolpaths	3	$1,450
2	CM-440 Post Processor Editing & G-code Verification	2	$1,250
3	CM-430 5-Axis CAM Programming	5	$2,400
	Components total	**10**	**$5,100**

$1,450 + $1,250 + $2,400 = $5,100

LIST $5,100

BUNDLE $4,350

$4,350
BUNDLE PRICE, PER PERSON

Save $750

You save $750 ($5,100 – $4,350), which is 14.7% off list.

BUNDLE C

Print-Ready Engineer

Design parts for the printer, run powder-bed builds, and certify it.

	COURSE	DAYS	LIST
1	PR-510 Design for Additive Manufacturing	2	$1,050
2	PR-520 SLS & Metal Part Prep	3	$1,850
3	PR-550 Additive Manufacturing Certification Prep	2	$950
	Components total	**7**	**$3,850**

$1,050 + $1,850 + $950 = $3,850

LIST $3,850

BUNDLE $3,250

$3,250
BUNDLE PRICE, PER PERSON

Save $600

You save $600 ($3,850 – $3,250), which is 15.6% off list.

Percentages are rounded to one decimal. Bundle A and Bundle B are also how the Onboarding and Machining paths book most cheaply; see the path-picker, page 21.

PATH-PICKER · 3 PEOPLE, 3 SEQUENCES

Tell us who you're sending. Here's the order we'd send them in.

Find the person on this page. Each path names the courses in order, an example quarter on real dates from this catalog, the total days and the total price.

1

NEW HIRE, FRESH TO CAD

The Onboarding Path

A new hire in their first quarter, little or no 3D CAD.

DE-102 → DE-101 → DE-110 → DD-201 → DE-130

8.5 days TOTAL TIME

$3,740 AT LIST

$3,190 WITH BUNDLE A

Jan 12 to Feb 19 WINDOW

AT THE END

They model, assemble and detail a part to a drawing your checker signs, and they're ready to sit the associate-level exam.

2

SENIOR DESIGNER

The Advancement Path

A designer who knows CAD cold and needs tolerancing, simulation and additive depth.

DD-210 → DD-220 → SM-301 → PR-510 → + DD-240

10 days TOTAL TIME

$5,200 AT LIST

$6,195 12 DAYS WITH DD-240

Jan 26 to Mar 17 WINDOW

AT THE END

They tolerance a part to how it's actually inspected, prove the fit with a stack-up, check stress and heat before the prototype, and redesign parts for the printer.

3

SHOP-FLOOR PROGRAMMER

The Machining Path

A machinist or programmer who runs the machines and needs CAM and post-processor depth.

CM-401 → CM-440 → CM-430 → CM-450

12 days TOTAL TIME

$6,150 AT LIST

$5,400 WITH BUNDLE B

Jan 12 to Mar 24 WINDOW

AT THE END

They post verified 3-axis and 5-axis programs that run without edits at the control, and they're ready to sit the CAM programmer exam.

Path 1 · The Onboarding Path

A new hire in their first quarter, little or no 3D CAD.

EXAMPLE QUARTER · DENVER

1 **DE-102** CAD Quick Start: Viewing, Measuring & Markup
0.5 days **$95**
Self-paced, first week (before Jan 12)

2 **DE-101** Parametric Modeling Foundations
3 days **$1,350**
Denver Jan 12–14

3 **DE-110** Assembly Modeling & Top-Down Design
2 days **$950**
Denver Jan 28–29

4 **DD-201** Production Drawings That Pass Review
2 days **$895**
Denver Feb 2–3

5 **DE-130** Associate-Level Mechanical CAD Certification Prep
1 day **$450**
Denver Feb 19

8.5 days TOTAL TIME
$3,740 AT LIST
$3,190 WITH BUNDLE A

Book steps 2–5 as Bundle A (Day-One Designer, $3,095): path total $95 + $3,095 = **$3,190**, saving $550.

$95 + $1,350 + $950 + $895 + $450 = $3,740. Days: 0.5 + 3 + 2 + 2 + 1 = 8.5. Jan 12 to Feb 19.

Path 2 · The Advancement Path

A designer who knows CAD cold and needs tolerancing, simulation and additive depth.

EXAMPLE QUARTER · A COLUMBUS DESIGNER, NO FLIGHTS

1 **DD-210**
GD&T & ASME Y14.5 Detailing
3 days **$1,450**
Columbus Jan 26–28

2 **DD-220**
Tolerance Stack-Up Analysis
2 days **$1,050**
Live online Feb 18–19

3 **SM-301**
Static & Thermal Simulation Essentials
3 days **$1,650**
Live online Mar 2–4

4 **PR-510**
Design for Additive Manufacturing
2 days **$1,050**
Live online Mar 16–17

5 **DD-240 · optional**
GD&T Professional Certification Prep
2 days **$995**
Columbus Mar 18–19

10 days
TOTAL TIME
$5,200
AT LIST
$6,195
12 DAYS WITH DD-240

Optional fifth step: DD-240 GD&T Professional Certification Prep, Columbus Mar 18–19, 2 days, $995. Path with certification: **12 days, $6,195** ($5,200 + $995). No bundle covers this path. Next quarter, PR-520 and PR-550 complete Bundle C for a designer going further into additive.

$1,450 + $1,050 + $1,650 + $1,050 = $5,200. Days: 3 + 2 + 3 + 2 = 10. Jan 26 to Mar 17.

AT THE END

They tolerance a part to how it's actually inspected, prove the fit with a stack-up, check stress and heat before the prototype, and redesign parts for the printer.

Path 3 · The Machining Path

A machinist or programmer who runs the machines and needs CAM and post-processor depth.

EXAMPLE QUARTER · CLEVELAND

1 **CM-401**
2.5-Axis Milling Toolpaths
3 days **$1,450**
Cleveland Jan 12–14

2 **CM-440**
Post Processor Editing & G-code Verification
2 days **$1,250**
Live online Jan 26–27

3 **CM-430**
5-Axis CAM Programming
5 days **$2,400**
Cleveland Feb 22–26

4 **CM-450**
CAM Programmer Certification Prep
2 days **$1,050**
Cleveland Mar 23–24

12 days
TOTAL TIME
$6,150
AT LIST
$5,400
WITH BUNDLE B

Book steps 1–3 as Bundle B (Spindle-Ready Programmer, $4,350): path total $4,350 + $1,050 = **$5,400**, saving $750.

$1,450 + $1,250 + $2,400 + $1,050 = $6,150. Days: 3 + 2 + 5 + 2 = 12. Jan 12 to Mar 24.

AT THE END

They post verified 3-axis and 5-axis programs that run without edits at the control, and they're ready to sit the CAM programmer exam.

Not sure which path fits? Call with the person's job in one sentence. An application engineer will name the sequence and the dates.

(800) 555-0142

All 28 courses at a glance

Formats: **C** Classroom · **L** Live online · **S** Self-paced · **A** At your site. List price per seat, USD.

CODE	COURSE	PREREQUISITE	DAYS	FORMATS	PRICE	PAGE
Track 01 · Design Essentials						
DE-101	**Parametric Modeling Foundations**	None. DE-102 recommended.	3	C L S A	$1,350	5
DE-102	**CAD Quick Start: Viewing, Measuring & Markup**	None	0.5	C L S A	$95	5
DE-110	**Assembly Modeling & Top-Down Design**	DE-101 or equivalent	2	C L S A	$950	5
DE-120	**Surface Modeling for Product Design**	DE-101 and one year of daily CAD	3	C L S A	$1,650	6
DE-130	**Associate-Level Mechanical CAD Certification Prep** CERT PREP	DE-101	1	C L S A	$450	6
DE-140	**Professional-Level Mechanical Design Certification Prep** CERT PREP	DE-110, or associate-level certification	2	C L S A	$950	6
Track 02 · Drawings & Detailing						
DD-201	**Production Drawings That Pass Review**	DE-101 or equivalent	2	C L S A	$895	8
DD-210	**GD&T & ASME Y14.5 Detailing**	Able to read a standard engineering drawing	3	C L S A	$1,450	8
DD-220	**Tolerance Stack-Up Analysis**	DD-210 or working GD&T knowledge	2	C L S A	$1,050	8
DD-230	**Sheet Metal Flat Patterns & Weldment Drawings**	DE-101 or equivalent	2	C L S A	$950	9
DD-240	**GD&T Professional Certification Prep** CERT PREP	DD-210	2	C L S A	$995	9
Track 03 · Simulation						
SM-301	**Static & Thermal Simulation Essentials**	DE-101 and a first course in strength of materials	3	C L S A	$1,650	11
SM-310	**Simulation Quick Check for Designers**	DE-101	1	C L S A	$350	11
SM-320	**Nonlinear & Contact Analysis**	SM-301	3	C L S A	$1,950	11
SM-330	**Fatigue & Vibration Analysis**	SM-301	3	C L S A	$1,950	12
SM-340	**Flow Simulation for Mechanical Designers**	DE-101; SM-301 recommended	3	C L S A	$1,850	12
Track 04 · Machining (CAM)						
CM-401	**2.5-Axis Milling Toolpaths**	Able to read a part print and set up a mill	3	C L S A	$1,450	14
CM-410	**3-Axis Surface Machining for Molds & Dies**	CM-401	3	C L S A	$1,650	14
CM-420	**Turning & Mill-Turn Programming**	CM-401, or a year programming lathes at the control	3	C L S A	$1,750	15
CM-430	**5-Axis CAM Programming**	CM-401 and six months of 3-axis programming	5	C L S A	$2,400	14
CM-440	**Post Processor Editing & G-code Verification**	CM-401	2	C L S A	$1,250	15
CM-450	**CAM Programmer Certification Prep** CERT PREP	CM-401 and six months of daily programming	2	C L S A	$1,050	15
Track 05 · 3D Printing & Scanning						
PR-501	**Desktop 3D Printing for Engineering Teams**	None	1	C L S A	$450	17
PR-510	**Design for Additive Manufacturing**	DE-101; PR-501 recommended	2	C L S A	$1,050	17
PR-520	**SLS & Metal Part Prep**	PR-510 or six months on an industrial printer	3	C L S A	$1,850	17
PR-530	**3D Scanning & Reverse Engineering**	DE-101 or equivalent	2	C L S A	$1,150	18
PR-540	**Printer Care & Calibration**	None	1	C L S A	$195	18
PR-550	**Additive Manufacturing Certification Prep** CERT PREP	One year of hands-on printing	2	C L S A	$950	18

AT YOUR SITE

Groups of 6 or more, dates by request: DE-101, DD-201, DD-210, CM-401, PR-501, PR-530.

ON DEMAND

DE-102, SM-310 and PR-540 are self-paced: start any day, 90 days of access.

AXIM

Train on the part.

Denver	Nashville	Columbus
Sacramento	Phoenix	Cleveland

(800) 555-0142

Q1 2027 TRAINING CATALOG
JANUARY TO MARCH 2027