

Product design using 3D Printing

Turning ideas into reality...building creative design skills
and exploring modern manufacturing technologies.



WHY Product Design Using 3D Printing MATTERS

**3D printing helps
transform ideas into
real products
quickly, efficiently,
and creatively.**

This training programme is designed to introduce participants to the fundamentals of product design using 3D printing technologies. It covers 3D modelling, preparing designs for printing, selecting suitable materials, and exploring practical applications of 3D printing across different industries.

Product Design Using 3D Printing MATTERS

Product Design using 3D Printing matters because it helps participants develop creative design skills, improve product development processes, and turn concepts into working prototypes.

Without 3D printing knowledge, participants may experience:

- Difficulty turning ideas into physical models.
- Limited understanding of 3D printing technologies.
- Higher costs during product testing and development.
- Challenges selecting the right materials for different designs.

PROGRAMME OVERVIEW

This programme helps participants understand:

- Fundamentals of 3D printing technologies.
- 3D modelling and product design basics.
- Preparing files and designs for printing.
- Selecting suitable materials for different applications.
- Operating and using 3D printers.
- Practical applications of 3D printing in design and manufacturing.

The result:

Creating practical and innovative product prototypes using modern 3D printing technologies.

What This Programme Prepares You to Do

This programme supports participants in developing practical product design skills and understanding the full 3D printing process from design to final production.

PARTICIPANTS DEVELOP THE CAPABILITY TO

- Understand the basics of 3D printing and product design.
- Create 3D models using design software.
- Prepare files correctly for accurate printing.
- Select suitable materials based on product needs.
- Operate 3D printers and manage printing processes.
- Solve common printing and design issues
- Produce functional prototypes for testing and development.

OUTCOMES FOR PARTICIPANTS

- Stronger practical design and modelling skills.
- Better understanding of modern manufacturing technologies.
- Improved ability to turn ideas into real products.
- Greater confidence in using 3D printing tools and software.

Programme Structure and Delivery Options

Programme Duration	Delivery Format	Flexible Delivery	Organisation Bundles
3 training days - 12 hours	Instructor-led (online)	Can be tailored to your organisation's needs and preferred group learning format.	Group subscription discounts available.

Instructor-led delivery
Delivered live through classroom sessions or online instructor-led training.

HOW LEARNING IS APPLIED

The programme combines practical learning with hands-on application. It includes interactive sessions on 3D design concepts, practical workshops using modelling software, direct training on operating 3D printers, and project-based activities focused on product development. Participants also work on small, applied projects and real-world examples to strengthen their practical skills and understanding.

PARTICIPANTS EXPLORE

- Create and develop 3D product models.
- Prepare designs for professional printing.
- Use 3D printers and related tools confidently.
- Apply practical product development techniques.
- Build functional prototypes for testing and improvement.

PROGRAMME DELIVERY

- Live expert-led learning sessions.
- Available in classroom or live online formats.
- Flexible delivery tailored to organisational needs and group learning styles.
- Designed to develop practical working methods and professional behaviours, not only knowledge transfer.

COURSE PREREQUISITES

No prior experience required.

THIS PROGRAMME IS DESIGNED FOR

- Product designers and engineers.
- Students in engineering and design fields.
- Entrepreneurs and innovation enthusiasts.
- Individuals interested in modern manufacturing technologies.

WHAT THIS TYPE OF TRAINING DELIVERS

Foundational Clarity Building a clear understanding of key concepts and essential skills for a confident start.	Improved Coordination Improving communication and collaboration between individuals and teams for smoother workflows.	Professional Readiness Preparing participants for the job market through practical skills and professional behaviour development.	Execution Discipline Strengthening the ability to follow plans, manage tasks efficiently, and deliver quality results.
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The result:

More confident participants with practical 3D design skills and the ability to turn ideas into real product prototypes.

COCREATE TO ACTIVATE™

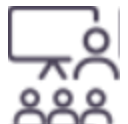
CoCreate to Activate™ is Maximus Academy's four-step method for building skills that last—not just in the classroom, but inside real organisations operating in fast-moving, high-demand sectors across the region.

Turning capability into national outcomes.



ASSESS

Understand the real operating world.



DESIGN

Build training that fits the sector.



DELIVER

Teach through Saudi SMEs and practitioners.



SUSTAIN

Embed the change inside organisations.

What this Ensures

- Skills that match global industry demands, not generic international templates.
- Immediate operational impact, because training is built around real sector challenges.
- Lasting organisational capability through the adoption of performance-driven tools and behaviours.

It is the difference between training individuals and equipping an entire workforce with the capabilities to perform, adapt, and deliver at scale.



Register for
the course
through the
QR code

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