COURSE SYLLABUS

Fusion Certification Course Online

This course equips you with the skills and knowledge needed to master Autodesk Fusion and prepare for the Autodesk Certified User exam. Through hands-on projects, you'll learn to design, prototype, and create manufacturing-ready models, setting yourself apart in the fields of design and engineering.

> Group classes in Live Online and onsite training is available for this course. For more information, email partnerships@vdci.edu or visit: https://vdci.edu/courses/fusion-certification

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Course Outline

This package includes these courses

- Intro to Fusion Course Online (30 Hours)
- Intermediate Fusion Course Online (Available Dec 2025) (30 Hours)

Intro to Fusion Course Online

Build a strong foundation in 3D modeling and design using Autodesk Fusion with this course for beginners. This course covers the essential tools and workflows needed to create parametric models, assemblies, and technical drawings, preparing you for more advanced design challenges. You will learn the following Fusion skills:

- Create and manipulate complex 3D product models using Fusion's core parametric tools.
- Build multi-component assemblies with accurate dimensioning and material assignment.
- Use design history to efficiently revise and iterate on your projects.
- Produce high-quality renderings and animations to visually communicate design.
- Generate detailed 2D drawings for professional manufacturing documentation.
- Gain practical experience by modeling a complete product—an electric scooter.
- Explore tools for sketching, extrusion, sweeping, and sheet metal design workflows.
- Learn to work efficiently with the latest version of Autodesk Fusion

Intermediate Fusion Course Online (Available Dec 2025)

Take your Autodesk Fusion skills to the next level with this hands-on, project-based course. You'll tackle a real-world design challenge by creating a custom trim tool kit for auto mechanics, mastering advanced modeling techniques like surfacing, plastics tools, and multi-part assemblies. By the end of the course, you'll have a portfolio-ready project that showcases your ability to design professional, user-focused products for manufacturing. You will learn the following Fusion skills:

- Master advanced surfacing and plastics tools in Autodesk Fusion
- Create and manage complex assemblies using linked components
- Design and model a multi-part product with toolbox, tray, and tools
- Generate professional-grade product designs for manufacturing
- Refine modeling skills by creating durable components for real-world use