COURSE SYLLABUS

SOLIDWORKS Certification (Self-Paced)

This course delivers thorough SOLIDWORKS training to help you build the skills required for success in design and engineering careers. Through hands-on projects and guided instruction, you'll master core SOLIDWORKS tools, prepare for certification, and produce professional-quality designs.

> Group classes in Live Online and onsite training is available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/classes/solidworks-certification-self-paced

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Course Outline

This package includes these courses

- Intro to SolidWorks Course (Self-Paced) (30 Hours)
- Intermediate SOLIDWORKS (Self-Paced) (30 Hours)

Intro to SolidWorks Course (Self-Paced)

Learn the essentials of SolidWorks by diving straight into a hands-on project. Begin by exploring the interface and core toolsets, then move on to sketching and 3D modeling to create fully editable parts that reflect solid design intent.

- Navigate the SolidWorks interface and core toolkits with confidence
- Apply sketching tools, constraints, and dimensions to drive parametric models
- Build 3D parts using essential features (extrude, revolve, cut, fillet, shell, pattern)
- Design with intent so models remain clean, organized, and easy to edit
- Create assemblies, add mates, and manage part relationships
- Generate exploded views and other visuals to communicate how designs go together

Intermediate SOLIDWORKS (Self-Paced)

This course offers an in-depth look at SOLIDWORKS, concentrating on advanced tools and workflows used to produce professional-level designs. It's designed for those who want to sharpen their technical skills and bring greater accuracy and sophistication to their 3D modeling projects. In this course, you'll cover the following:

- Work with advanced SOLIDWORKS tools such as sheet metal, weldments, and complex solid modeling features
- Build and animate sophisticated assemblies using advanced mates, exploded views, and configurations
- Produce professional-level blueprints and renderings with custom templates, applied tolerances, and enhanced visual settings
- Customize SOLIDWORKS preferences and workflows to improve speed and overall design efficiency

- Generate detailed technical drawings and documentation suitable for manufacturing
- Apply best practices for collaboration and version control in team-based design environments