

SolidWorks road map

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Introduction:

***Solid works Paths**

CSWA : Essential SOLIDWORKS concepts

2D sketching and 3D modeling

Layout of the CSWA exam

Practice exercises and exams

SOLIDWORKS interface navigation

Basic assemblies and 2D drawings

Troubleshooting, tips, tricks, and shortcuts

CSWP : Advanced solidworks parts

Advanced solidworks assemblies

Clean, simplified modeling and design intent

Troubleshooting, tips, tricks, and shortcuts

Practice exercises and exams

SOLIDWORKS fundamentals

Style and structure of SOLIDWORKS exams

Hands-on challenge walkthroughs

CSWE : Advanced drawings, Sheet metal, weldments, surfacing, and more

SOLIDWORKS Animation

By building small animation projects, learn the core functions and value of animation tools.

Apply explode, collapse, and rotation animations. Use timeline and model views

to increase the complexity of your animations.

Create realistic representations of your designs with motion drivers and the addition of gravity or camera sleds.

SOLIDWORKS Simulation

Test your models in virtual environments before manufacturing to predict how they'll behave under various loads and conditions.

Learn how to use linear static simulations for parts and assemblies, beam analysis, large displacement analysis, temperature loading, and shrink fitting.

SOLIDWORKS Tips & Tricks

A collection of tips, tricks, and how-to's created in response to user-submitted questions.

Each lesson offers a chance to learn from a challenge faced by a fellow SOLIDWORKS user.

SOLIDWORKS Update Training

This course is designed to make sure you get the most out of your SOLIDWORKS upgrade.

It covers all the new functionality in detail,

so that you can take advantage of the new features and functions that will make you even more productive.

***SOLIDWORKS SimulationXpress**

Learn everything you need to know to begin validating designs in SOLIDWORKS SimulationXpress with step-by-step instructions for running a study and optimizing a part to meet design criteria.

***SOLIDWORKS Flow Simulation**

Discover how to optimize your designs and prevent costly design errors before manufacturing using SOLIDWORKS Flow Simulation.

Analyze fluid flow and heat transfer effects within parts and assemblies.

Test your SOLIDWORKS models to predict how various flow conditions might impact your designs.

Evaluate the manufacturability of your designs by simulating how molten plastic will flow through a model using SOLIDWORKS Plastics.

***Inside the Design**

Examine real-world designs to gain an understanding of a wide range of 3D modeling tools and techniques, high-level design strategies, and manufacturing methods.

***SOLIDWORKS Advanced Surface Modeling**

*SOLIDWORKS CAM

*SOLIDWORKS PhotoView 360

Walk through the process of creating photorealistic renderings of your parts and assemblies.

Produce presentation-quality images with custom backgrounds, lighting, textures, decals, and scenes.

*SOLIDWORKS Visualization and Appearances

Explore the many visualization tools available in SOLIDWORKS,

from basics like setting appearances and applying decals,

to more advanced concepts like creating cameras and walkthrough animations.

*SOLIDWORKS Composer

Familiarize yourself with the core SOLIDWORKS Composer workflows, interface,

and terminology by learning how to add annotations, create views, 2D images,

and 3D animations, implement design changes, and publish files in a variety of file formats.

*SOLIDWORKS File Management

Sources :

- Solidworks Beginner tutorial:
<https://www.youtube.com/watch?v=dN1Ub864wks&list=PLkMYhICFMsGajeARsY7N1t1jhbtMb1poL>
- Solidworks Arabic tutorial :
<https://www.youtube.com/playlist?list=PLKxWlfoZfdWEL3PjOaPI6MgCojuMyUob6>
- Solidworks for CSWA/CSWP/CSWE [Solidproffesor - Drive]
https://drive.google.com/drive/folders/1-kzRnWRZVWNdLpqH4gHPv6EDGPjr2hZa?fbclid=IwAR2jGUbn3THim5ykmbmCwS_FzshOodIGZ77FZ6LftRemlevOw4Yxwz14mck

Detailed Roadmap:

1:

- Read the intro and know what is solid works and it's paths.
- Study the Beginner tutorial
- While studying the beginner you can see the arabic source if needed

2:

- Try to take CSWA but before that have a look in the google drive course attached above ... You can find a very awesome sessions which will help you to succeed in your exam.

3:

- Try to take CSWP but before that have a look in the google drive course attached above ... You can find a very awesome sessions which will help you to succeed in your exam.

4:

- Try to take CSWE but before that have a look in the google drive course attached above ... You can find a very awesome sessions which will help you to succeed in your exam.

5:

- Complete the professional professor course

Always remember : Practice makes you perfect.