CINPAA | INTERNATIONAL COOPERATIVE FOR TRAINING & CONSULTING

سينبا | التعاونية الدولية للتدريب والاستشارات



Training programme:

SOLIDWORKS ESSENTIALS COURSE

Delivered in several cities and dates

OUR INTERNATIONAL PARTNERS:

ISDE Law Business School High Performance Education
Higher Institute of Law and Business (ISDE)

Professional Development Institute
Professional Development Institute

Universidad Camilo José Cela
Camilo José Cela University

SEK EDUCATION GROUP

ISO 29993:2017 Learning services for non-formal education and training

ISO 9001:2015

SOLIDWORKS ESSENTIALS COURSE

About the programme:

Prerequisites: Mechanical design experience; experience with the Windows® operating system. Course Outline SolidWorks Essentials teaches you how to use the SolidWorks mechanical design automation software to build parametric models of parts and assemblies, and how to make drawings of those parts and assemblies. The main topics covered include: Day 1: SolidWorks Basics and the User Interface Design Intent File References Opening Files The SolidWorks User Interface Using the Command Manager ---------- Introduction to Sketching 2D Sketching Saving Files What are We

Objectives:

Developing participants' skills, knowledge, values and professional approaches in:

a. Navigate the modelling workspace and organise a part design.

b. Create constrained sketches that reflect the intended design geometry.

c. Build and modify solid features using an ordered modelling approach.

d. Create patterns, shells and ribs while maintaining design intent.

e. Produce drawings that communicate dimensions and part information.

Target audience:

a. Mechanical designers beginning parametric solid modelling.

b. Engineering technicians preparing part models and drawings.

c. Product development staff with basic engineering drawing knowledge.

Daily programme:

• Day 1: SOLIDWORKS basics, the interface and sketching

a. SOLIDWORKS basics, design intent, file references and opening files

b. The SOLIDWORKS user interface and using the CommandManager efficiently

c. 2D sketching: sketch entities, basic sketching and the rules that govern sketches

d. Sketch relations, dimensions, sketching guidelines and a first extrude

e. Workshop: sketching and extruding a fully defined bracket profile

f. Day output: fully defined sketch and first extruded part

• Day 2: Basic part modelling and detailing basics

a. Basic modelling terminology, choosing the best profile and the sketch plane

b. Boss and cut features, sketching on a planar face and the Hole Wizard

c. Fillets, editing tools, boss features with draft and symmetry in the sketch

d. Detailing basics: drawing views, centre marks, dimensioning and changing parameters

e. Workshop: modelling a machined part and producing its first drawing views

f. Day output: part model with linked basic drawing

• Day 3: Patterns, revolved features and material properties

a. Why use patterns: linear, circular, mirror and sketch-driven patterns

b. Reference geometry and planes, and using the pattern seed only

c. Revolved features: building a wheel rim and spoke with edited materials

d. Mass properties, file properties and a first check with SimulationXpress

e. Workshop: building a patterned wheel and checking its mass properties

f. Day output: patterned revolved part with material and mass data

• Day 4: Shelling, ribs, editing and configurations

a. Analysing and adding draft, shelling, ribs, full round fillets and thin features

b. Editing repairs: sketch issues, freezing features and FilletXpert

c. Design changes: model information, rebuilding tools and replacing sketch entities

d. Configurations, global variables and equations, and the Design Library

e. Workshop: creating a configured part family driven by global variables and equations

f. Day output: configured part with documented equations

• Day 5: Drawings and bottom-up assemblies

a. Drawing sheets and formats: section, detail, broken, projected and model views

b. Annotations, bottom-up assembly creation and positioning the first component

c. Mating components, sub-assemblies, smart mates and part configurations in assemblies

d. Analysing assemblies: clearances, exploded views, bill of materials and Pack and Go

e. Workshop: assembling a small mechanism and producing an assembly drawing with a bill of materials

f. Day output: assembly, exploded view and assembly drawing

Training methods and certificates:

Our programmes are built on modern pedagogy that combines theoretical knowledge with practical application, in line with participants' needs and the demands of the workplace. Methods include:

- **Interactive workshops:** analysis of real data and group discussions that strengthen practical understanding.
- **Case studies:** examples from international organisations that highlight real successes and challenges.
- **Realistic simulations:** participants train through professional scenarios that mirror real situations requiring decisions and situation management.
- **Advanced tools and technologies:** hands-on practice with up-to-date training software and tools suited to each field.

Certificates:

On successful completion, participants receive a certificate issued by CINPAA, a training institute officially registered in the European Union, Spain and the United Kingdom.

CINPAA - Cooperative International for Training and Consulting

Our programmes are delivered within academic and professional partnerships, cooperation agreements and memoranda of understanding with a number of academic and professional institutions, including:

- **Camilo José Cela University - Spain**
- **ISDE - Law & Business School - International**
- **Professional Development Institute - United Kingdom**

These partnerships aim to exchange expertise, develop training content and raise programme quality in line with international best practice.

Kind regards,

International Programmes Department

"CINPAA" INTERNATIONAL COOPERATIVE FOR TRAINING & CONSULTING

Course details and registration

Course Details | Registration

Programme	**SOLIDWORKS ESSENTIALS COURSE**	Course Title
Language	**English**	Course Language
Duration	**5 days**	Duration
Venue	**Several cities and dates – see the table below**	Venue
Financial offer	**Sent separately, according to the number of participants and the delivery conditions.**	Financial Offer

Registration and confirmation:

To register, please use one of the following:

a. Complete the programme request form on our website.

b. Or send an email from your training department.

c. Or a nomination letter from your organisation.

Send your confirmation by:

Email	info@cinpaa.org
WhatsApp	+34 635 867 686

Our team is ready to advise on accommodation and logistics before and during your stay.

Planned programme dates:

City	Dates
Barcelona, Spain	11 - 15 Jan 2027
London, United Kingdom	12 - 16 Apr 2027
Cairo, Egypt	12 - 16 Jul 2027
Madrid, Spain	11 - 15 Oct 2027

The programme can be delivered in other cities and on other dates to suit your organisation, at the length you need. The cities are listed on the last page.

سينبا التعاونية الدولية للتدريب والاستشارات | CINPAA – International Cooperative for Training & Consulting

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Scan to save our contact

Cities where we deliver our programmes:

This programme can be delivered in any of the following cities, and elsewhere on request.

Albania Tirana, Saranda	**Australia** Sydney	**Austria** Vienna, Hallstatt, Salzburg / Zell am See	**Azerbaijan** Baku
Bahrain Manama	**Belgium** Brussels, Bruges	**Bosnia and Herzegovina** Sarajevo	**Canada** Toronto, Montreal
China Hong Kong, Shanghai, Beijing, Guangzhou	**Croatia** Dubrovnik	**Cyprus** Nicosia, Limassol, Larnaca	**Czech Republic** Prague
Egypt Cairo, Sharm El Sheikh, Alexandria, Hurghada	**France** Paris	**Georgia** Tbilisi, Batumi	**Germany** Munich, Berlin, Düsseldorf, Frankfurt
Greece Athens, Rhodes	**Hungary** Budapest	**Indonesia** Bali, Jakarta	**Ireland** Dublin
Italy Rome, Florence, Milan, Venice, Como	**Japan** Tokyo	**Jordan** Amman, Aqaba	**Kuwait** Kuwait City
Malaysia Kuala Lumpur	**Maldives** Maldives	**Mauritius** Mauritius	**Montenegro** Budva, Kotor
Morocco Casablanca, Marrakech, Tangier, Rabat	**Netherlands** Amsterdam	**Oman** Muscat, Salalah	**Philippines** Manila
Poland Krakow, Warsaw	**Portugal** Lisbon, Porto	**Qatar** Doha	**Russia** Moscow
Saudi Arabia Riyadh, Jeddah, Dammam	**Serbia** Belgrade	**Slovenia** Ljubljana	**South Korea** Seoul
Spain Madrid, Barcelona, Valencia, Alicante, Benidorm, Malaga / Marbella, San Sebastian, Granada, Cordoba, Canary Islands, Seville, Bilbao	**Switzerland** Geneva, Luzern, Zurich, Interlaken, Zermatt, Lugano	**Thailand** Bangkok, Phuket	**Tunisia** Tunis
Turkey Istanbul, Antalya, Trabzon, Bursa, Izmir, Bodrum, Antakya (Hatay)	**United Arab Emirates** Dubai, Abu Dhabi	**United Kingdom** London, Edinburgh, Manchester, Birmingham	**United States** Miami, New York, Los Angeles, Washington