

SCHOOL OF IT INTERNATIONAL

# SolidWorks Courses Brochure

Live, 1-on-1 online training in SolidWorks — Dassault Systèmes' industry-leading solid modelling CAD, CAE, and product data management software. From Essentials through CAD Design Professional.

Essentials

CAD Design Associate

CAD Design Expert

CAD Design Professional

**School of IT International (Pty) Ltd**

Somerset West, Cape Town, South Africa · [schoolofit.co.za](http://schoolofit.co.za)

# SolidWorks Essentials

SolidWorks is a brand within Dassault Systèmes that develops and markets solid modeling computer-aided design, computer-aided engineering, 3D CAD design and collaboration, analysis, and product data management software. 1-on-1 online training with a real lecturer.

● Flexible hours

● Commence anytime

● 1-on-1 online with a real lecturer

## Learning Objectives

Covered over 10 hours (2-4 days).

- 1 **Sketching — sketch entities: lines, rectangles, circles, arcs, ellipses, centerlines**
- 2 **Sketch tools — offset, convert, trim; sketch relations (basic: coincident, parallel, tangent); dimensions**
- 3 **Basic part features — boss and cut extrudes, revolves, fillets and chamfers**
- 4 **Linear and circular patterns; feature conditions (start and end)**
- 5 **Part data — mass properties and materials**
- 6 **Drawings — basic drawing views and annotations**

## Pricing

### COURSE PRICE

**R13,900**

Full payment before commencement (no payment plan)

## Course Duration & Format



### Duration

10 hours (2-4 days) — maximum completion time



### Payment

Full payment only (no payment plan)



### Mode

1-on-1 online, real lecturer, flexible scheduling



### Certificate

Certificate of Completion included

## Career Prospects

- ◆ CAD Designer
- ◆ Mechanical Design Engineer
- ◆ Product Design Engineer
- ◆ Manufacturing Design Specialist
- ◆ Design Draughtsperson

Typical SolidWorks-skilled salary (South Africa)

**R200k – R420k / yr**



**International exams (optional, ~1):** Autodesk certification exams — contact us to confirm current fee (varies by exchange rate).  
School of IT handles booking & admin if you choose to sit one.



Get job-ready skills — start your SolidWorks Essentials course today.

**Enrol Now** →

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Somerset West, Cape Town, South Africa

# SolidWorks CAD Design Associate

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● Flexible hours

● Commence anytime

● 1-on-1 online with a real lecturer

**Prerequisite:** SolidWorks Essentials course.

## 🎓 Learning Objectives

Covered over 20 hours (5-10 days).

- 1 Starting a sketch on a plane or face; sketch entities, tools, relations and automatic relations
- 2 Fully defining a sketch; sketch mirror, smart dimension, fillets and chamfers; sketch contours
- 3 Extruded boss/cut, revolves, fillets and chamfers; design intent (part orientation, end conditions); Hole Wizard
- 4 Linear, circular, and mirror patterns
- 5 Bottom-up assembly modeling — standard mates, move/rotate components, exploded views, clearance and interference detection, physical dynamics
- 6 Drawings and detailing; editing parts and sketches; applying material properties; Measure and Mass Properties tools; UI customization; global variables and equations

## 💰 Pricing

### COURSE PRICE

# R16,900

Full payment before commencement (no payment plan)

## 📚 Course Duration & Format



### Duration

20 hours (5-10 days) — maximum completion time



### Payment

Full payment only (no payment plan)



### Mode

1-on-1 online, real lecturer, flexible scheduling



### Certificate

Certificate of Completion included

## 👜 Career Prospects

◆ CAD Designer

◆ Mechanical Design Engineer

◆ Product Design Engineer

◆ Manufacturing Design Specialist

◆ Design Draughtsperson

Typical SolidWorks-skilled salary (South Africa)

**R280k – R550k / yr**



**International exams (optional, ~1):** Autodesk certification exams — contact us to confirm current fee (varies by exchange rate).  
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# SolidWorks CAD Design Expert

SolidWorks is a brand within Dassault Systèmes that develops and markets solid modeling computer-aided design, computer-aided engineering, 3D CAD design and collaboration, analysis, and product data management software. 1-on-1 online training with a real lecturer.

● Flexible hours

● Commence anytime

● 1-on-1 online with a real lecturer

**Prerequisite:** SolidWorks CAD Design Associate course.

## 🎓 Learning Objectives

Covered over 20 hours (5-10 days).

- 1 **Lofts, sweeps, and in-context assembly changes; imported part modification**
- 2 **Belts and chains; sketch blocks; multi-bodies; in-context assembly design; sketch pictures; spring modeling**
- 3 **Move/copy bodies; split tool; assembly mates; 3D sketch**
- 4 **Advanced weldments; sheet metal import and modification**
- 5 **Assembly configurations; advanced Bill of Materials functionality**

## 💰 Pricing

### COURSE PRICE

**R18,900**

Full payment before commencement (no payment plan)

## 📚 Course Duration & Format



### Duration

20 hours (5-10 days) — maximum completion time



### Payment

Full payment only (no payment plan)



### Mode

1-on-1 online, real lecturer, flexible scheduling



### Certificate

Certificate of Completion included

## 👜 Career Prospects

- ◆ CAD Designer
- ◆ Mechanical Design Engineer
- ◆ Product Design Engineer
- ◆ Manufacturing Design Specialist
- ◆ Design Draughtsperson

Typical SolidWorks-skilled salary (South Africa)

**R350k – R680k / yr**



**International exams (optional, ~1):** Autodesk certification exams — contact us to confirm current fee (varies by exchange rate).  
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# SolidWorks CAD Design Professional

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● Flexible hours

● Commence anytime

● 1-on-1 online with a real lecturer

**Prerequisite:** SolidWorks CAD Design Expert course.

## 🎓 Learning Objectives

Covered over 40 hours (~2 months).

- 1 **Creating a part from a drawing; using linked dimensions and equations to aid modelling; updating parameters and dimension sizes**
- 2 **Modifying geometry and parameters while maintaining design intent; mass property analysis**
- 3 **Creating and changing configurations, including via a Design Table**
- 4 **Creating and managing assemblies — collision/interference detection, basic and advanced mates, subassemblies, coordinate systems**
- 5 **Standard SolidWorks exam tools — sketch entities/tools/relations, boss and cut features (extrudes, revolves, sweeps, lofts), patterns, equations, mirror, multi-body parts, rib, mass properties**
- 6 **Advanced assembly tools — reference geometry, in-context features, suppression states, design tables, external references**

## 💰 Pricing

### COURSE PRICE

**R28,800**

Payment plan: 2 payments of R14,400 per 20 hours

## 📖 Course Duration & Format



### Duration

40 hours (~2 months) — maximum completion time



### Payment

Payment plan available: R14,400 × 2 payments



### Mode

1-on-1 online, real lecturer, flexible scheduling



### Certificate

Certificate of Completion included



## Career Prospects

◆ CAD Designer

◆ Mechanical Design Engineer

◆ Product Design Engineer

◆ Manufacturing Design Specialist

◆ Design Draughtsperson

Typical SolidWorks-skilled salary (South Africa)

**R420k – R800k / yr**



**International exams (optional, ~1):** Autodesk certification exams — contact us to confirm current fee (varies by exchange rate).  
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