AFRICAN ACADEMY



Africa's premier training Institute for the built Environment

SolidWorks Professional Course CSWP Fact Sheet

SolidWorks Professional Course CSWP

Program: Software Training

Part-Time

Description

This program has been designed to enable you to reach the following outcomes:

Improve and gain software design skills
Provides more practice involving a broader range of skills appropriate for a person who may be able to produce drawings, designs, estimate the cost for the project, manage as well as be able to supervise the project in the mining, manufacturing and process industries etc.



Course content

- Creating a Part from a Drawing
- Using Linked Dimensions and Equations to Aid in Modeling
- Using Equations to Relate Dimensions
- Updating Parameters and Dimension sizes
- Mass Property Analysis
- Modifying Geometry on Initial Part to Create a More Complex Part
- Modifying Parameters on the Part at Different Stages while Maintaining All Other Dimensions and Design Intent
- Creating Configurations from Other Configurations
- Changing Configurations
- Creation of Configurations Using a Design Table
- Mass Properties
- Changing and/or Rearranging Features of an Existing SOLIDWORKS Part
- Creating an Assembly
- Adding Parts to an Assembly
- Doing Collision Detection when Moving a Part in an Assembly
- Interference Detection
- Basic and Advanced Mates
- Inserting Subassemblies
- Replacing a Part With Another Part in an Assembly
- Creating a Coordinate System
- Using a Coordinate System to Perform Mass Properties Analysis

Duration

40 hours on Saturdays from 08:00 – 12:00



Course fees

R8 500. Additional costs for books, kits etc.

No **examination fee** textbooks, workshop materials or tools are included.

Examination

The examination for the software will be online.

Certification

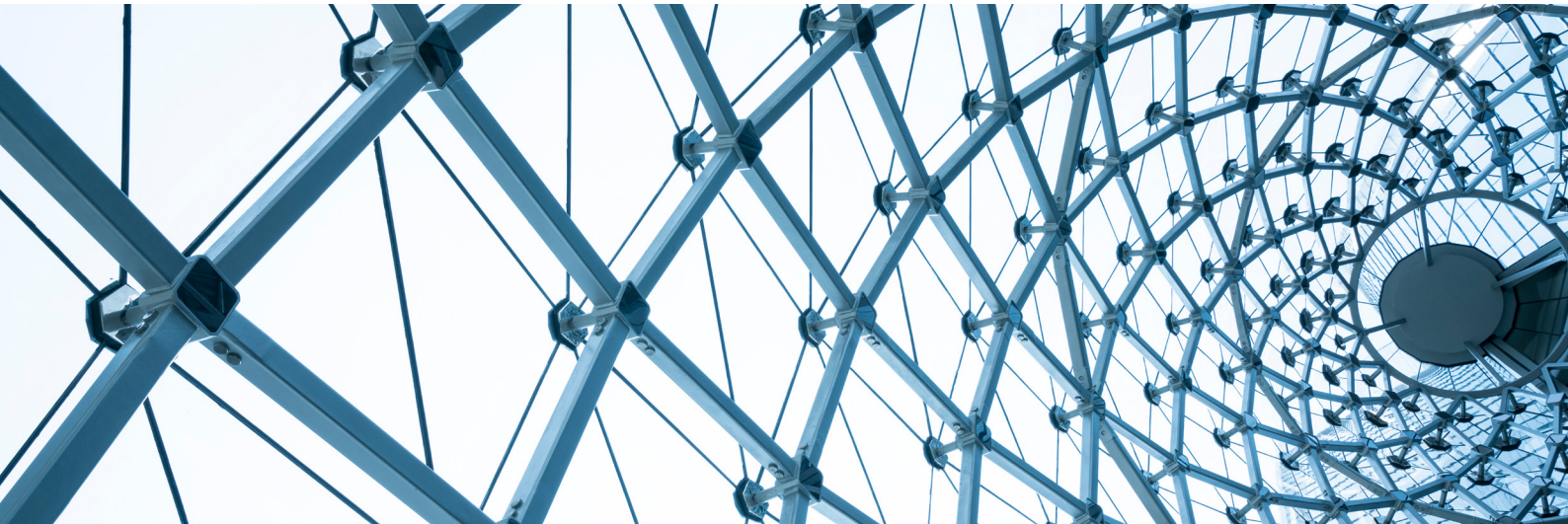
On successful completion of the programme, the certificate will be issued by the Certified SolidWorks Professional (CSWP)

Disclaimer

The content of this brochure, accurate at the time of going to print, is subject to change without notification due to legislation, market requirements or any other reason. African Academy reserves the right to any change without notice.

Why attend

Certified SolidWorks Professional (CSWP) awards certificates to people who have shown they have mastered skills that are based on excellent standards set by the industry. SolidWorks is an international provider, and their examination is an international one.



Standard SolidWorks tools that may be covered in the course

- Sketch entities - lines, rectangles, circles, arcs, ellipses, centerlines
- Sketch tools - offset, convert, trim
- Sketch relations
- Boss and cut features - extrudes, revolves, sweeps, lofts
- Fillets and chamfers
- Draft
- Shell
- Hole Wizard
- Linear, circular, and fill patterns
- Linked dimensions
- Equations
- Mirror
- Dimensions
- Feature conditions - start and end
- Multi-body parts
- Rib
- Feature scope
- Mass properties
- Move/Delete face
- Materials
- Restraints
- Inserting components - new and existing
- Standard mates and advanced mates
- Reference geometry - planes, axis, mate references
- In-context features
- Interference detection
- Suppression states
- Move/Rotate component
- Assembly features
- Collision detection in an assembly
- External references
- Design tables
- Dimensions and model items



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