CAD and SolidWorks Training

Below you will find courses about CAD from some of our fantastic training providers.

Funding options available:

- If you work live or work in Cheshire and Warrington for a business with less than 50 employees you can access any of the courses below and they will be fully funded by Accelerate and the Cheshire and Warrington Local Enterprise Partnership.

- If you live or work in Cheshire and Warrington for a business with over 50 employees, 40% of the cost of the courses below will be covered by Accelerate.

If you are interested in any of the below courses and would like to find out more, please get in touch by emailing – accelerate@chester.ac.uk

**CAD Essentials**

During this course you will learn how to use basic drawing tools to create simple line drawings, distances, areas and preparing drawing to print on CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 18 hours

Course cost - £390.00 (VAT not charged)

Delivery method – online

Target group - Participants new to CAD or wish to build on existing skills
**CAD Animation**

During this course you will learn how to use animation tools to create presentation resources. Bring designs to life and demonstrate functionality on Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 12 hours

Course cost - £320.00 (VAT not charged)

Delivery method – online

Target group - Participants new to CAD or wish to build on existing skills

---

**2D Design**

During this course you will learn how to set up drawing sheets, create drawing views, apply dimensions, how to reuse drawing data, manage references and modelling information on Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 18 hours

Course cost - £390.00 (VAT not charged)

Delivery method – online

Target group - Participants new to CAD or wish to build on existing skills
**Advanced Part Modelling**

This course covers advanced training on creating contoured shapes, model manipulation and form free design on Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 18 hours

Course cost - £395.00 (VAT not charged)

Delivery method – online

Target group - Participants must have existing CAD skills

---

**Assembly Modelling**

This course will allow participants to understand assembly of parts, fixings, configuration, modifications and assembly management on Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 15 hours

Course cost - £340.00 (VAT not charged)

Delivery method – online

Target group - Participants new to CAD or wish to build on existing skills
**Surface Modelling**

This course will allow participants to understand how to mix and match complex surfaces, solids and workflows on Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 18 hours

Course cost - £395.00 (VAT not charged)

Delivery method – online

Target group - Participants should have completed the Advanced Part Modelling course as a pre-requisite

**Sheet Metal Modelling**

This course will be able participants how to produce sheet metal part designs, importing bend radius, thickness and design parts within an assembly of parts

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body - City & Guilds/nationally recognised certificate

Course length - 18 hours

Course cost - £395.00 (VAT not charged)

Delivery method – online

Target group - Participants should have completed the Advanced Part Modelling course as a pre-requisite
**Weldment Design**

This course will enable participants to streamline design and manufacture welded structures, frames and bases to form the foundation of products using the SolidWorks software.

Training provider – Solid Solutions Management  
Awarding body – SolidWorks Certificate  
Course length – 1 day  
Course cost - £510.00 (VAT included)  
Delivery method – online with a virtual instructor  
Target group - Participants new to CAD or wish to build on existing skills

**Mould Design**

This course will enable participants to amend designs at any stage from development to manufacture using modelling the SolidWorks software which is suitable for a wide range of designs and moulds.

Training provider – Solid Solutions Management  
Awarding body – SolidWorks Certificate  
Course length – 2 days  
Course cost - £1020.00 (VAT included)  
Delivery method – online with a virtual instructor  
Target group - Participants new to CAD or wish to build on existing skills
**Photo Realistic Rendering**

This course will teach participants how to take photos of their 2D and 3D data

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 1 day

Course cost - £436.80 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills

**Advanced Realistic Rendering**

This course will teach participants how to take photos of their 2D and 3D data

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 1 day

Course cost - £218.40 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills
Pipe & Tube Routing

This course will teach participants how to -

- Use user interface
- Editing techniques
- Learn about common workflows
- Generate reports
- Create flexible links between key components and assembly layout drawings.
- Create and adding existing drawings & instrument lines

Training provider – SquareOne Training
Awarding body – Autodesk certificate
Course length – 2 days
Course cost - £436.80 (VAT included)
Delivery method – online with a virtual instructor
Target group - Participants new to CAD or wish to build on existing skills

Electrical Routing

Users will learn how to import wiring diagrams to automate electrical parts, wires & cables.

Training provider – SquareOne Training
Awarding body – Autodesk certificate
Course length – 2 days
Course cost - £436.80 (VAT included)
Delivery method – online with a virtual instructor
Target group - Participants need to have completed a basic CAD course
**Electrical Schematics**

Users will learn how to create integration between electrical & mechanical design processes

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 3 days

Course cost - £655.20 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills

**Finite Element Analysis (FWA)- Fundamentals**

This course is an introduction to concepts, capabilities of stress analysis and FEA. This course uses Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body – City & Guilds/nationally recognised certificate

Course length – 15 hours

Course cost - £395.00 (VAT not charged)

Delivery method – online with a virtual instructor

Target group - Participants less familiar with concepts of stress analysis
**Finite Element Analysis (FWA) - Essential**

This course will allow participants to understand basics of FEA and how these can be used in engineering. They will also learn how to analyse the process of structural behaviour. This course uses Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body – City & Guilds/nationally recognised certificate

Course length – 21 hours

Course cost - £475.00 (VAT not charged)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills

---

**Finite Element Analysis (FWA) - Motion Simulation**

This course will teach participants about simulate motion, inter-part relationships and how to test & calculate mechanisms. This course uses Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body – City & Guilds/nationally recognised certificate

Course length – 24 hours

Course cost - £550.00 (VAT not charged)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills
**Finite Element Analysis (FWA) - Dynamics**

This course will all participants to understand the effects of vibration and dynamic loading conditions have on designs.

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 2 days

Course cost - £436.80 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills

---

**Finite Element Analysis (FWA) - Non Linear**

This course will all participants to understand the effects of materials behaviour.

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 1 day

Course cost - £218.40 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills
**Computational Fluid Dynamics- Essentials**

This course will teach participants how CFD can be used to solve complex engineering fluid dynamics problems. This course uses Auto CAD/SolidWorks.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body – City & Guilds/nationally recognised certificate

Course length – 21 hours

Course cost - £475.00 (VAT not charged)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills

---

**Data Management- Essentials**

This course will all participants to understand data management software and suite of reports.

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 2 days

Course cost - £218.40 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants who are systems administrators
Data Management- Advanced
This course will all participants to understand the data administration aspect of CAD software
Training provider – SquareOne Training
Awarding body – Autodesk certificate
Course length – 3 days
Course cost - £218.40 (VAT included)
Delivery method – online with a virtual instructor
Target group - Participants who are systems administrators

CAD Automation- Basics
This course is a first level overview of CAD Automation using Autodesk CAD software.
Training provider – SquareOne Training
Awarding body – Autodesk certificate
Course length – 2 months- 60 hours
Course cost - £707.85 (VAT included)
Delivery method – online with a virtual instructor
Target group - Participants new to CAD or wish to build on existing skills
**CAD Automation- Advanced**

This course builds on existing CAD skills in creation, modification analysis and optimisation of a design with the use of 2D & 3D software.

Training provider – SquareOne Training

Awarding body – Autodesk certificate

Course length – 2 months - 90 hours

Course cost - £436.80 (VAT included)

Delivery method – online with a virtual instructor

Target group - Participants who wish to build on existing skills

---

**2D CAD**

This course is a first level overview for using Autodesk CAD/SolidWorks software. Participants will learn how to create, edit & view files.

This course will include a virtual instructor with requirement for individual research as part of course content.

Training provider – Macclesfield College

Awarding body – City & Guilds/nationally recognised certificate

Course length – 2 months – 21 hours

Course cost - £480.00 (VAT not charged)

Delivery method – online with a virtual instructor

Target group - Participants new to CAD or wish to build on existing skills