

ASCENT TRAINING WALES

CAD Masterclass

A five-day CAD programme — fully funded through REACT+ if you've been made redundant

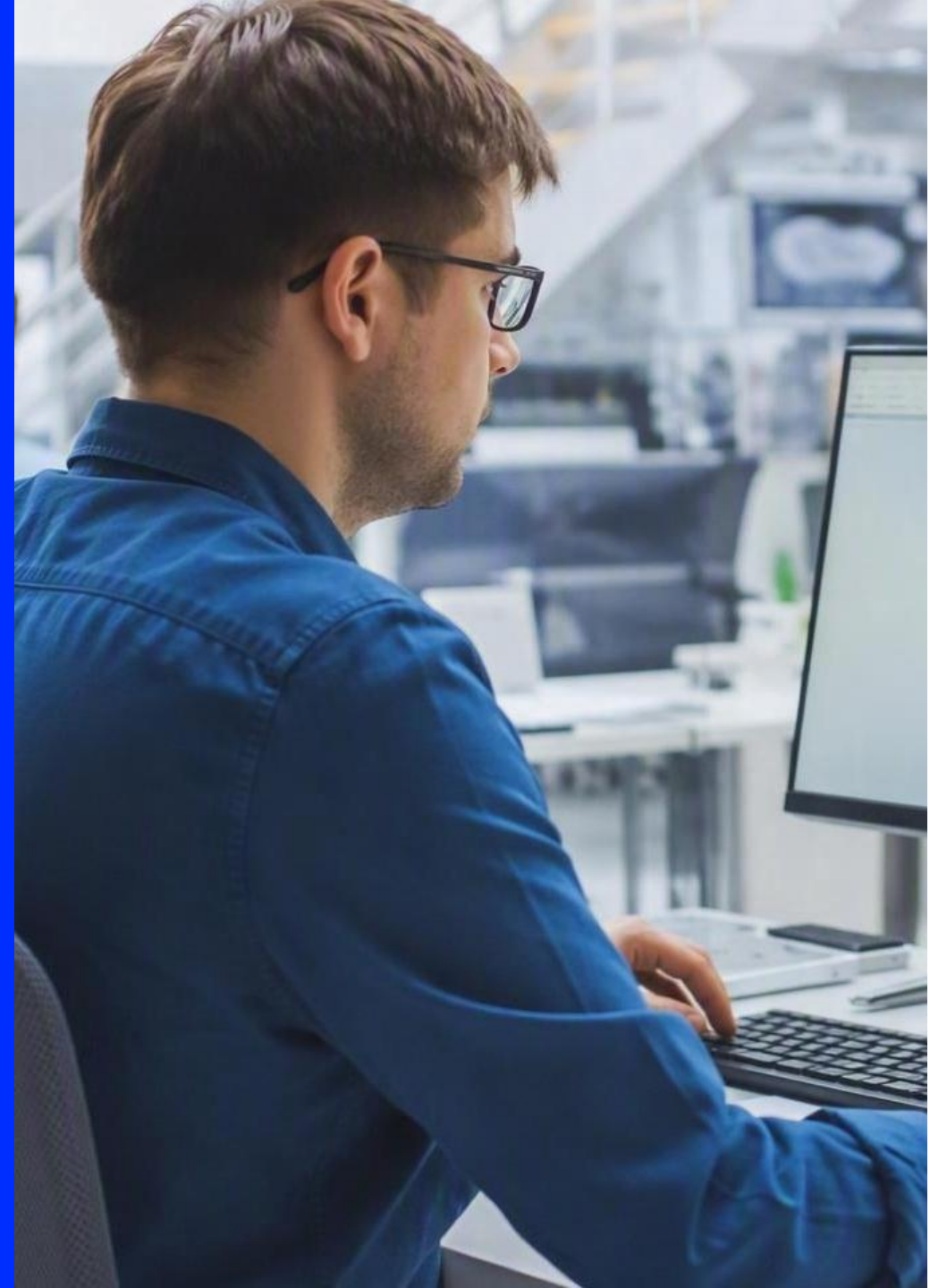
www.ascenttrainingwales.co.uk

01 · ABOUT THE COURSE

About the course

The CAD Masterclass is a five-day intensive programme giving you a comprehensive introduction to modern 2D and 3D design using industry-standard CAD tools, from fundamental principles to production-ready models.

FIVE DAYS · BRIDGEND, WALES OR LIVE ONLINE
£1,500 — fully funded through REACT+ · Small cohorts

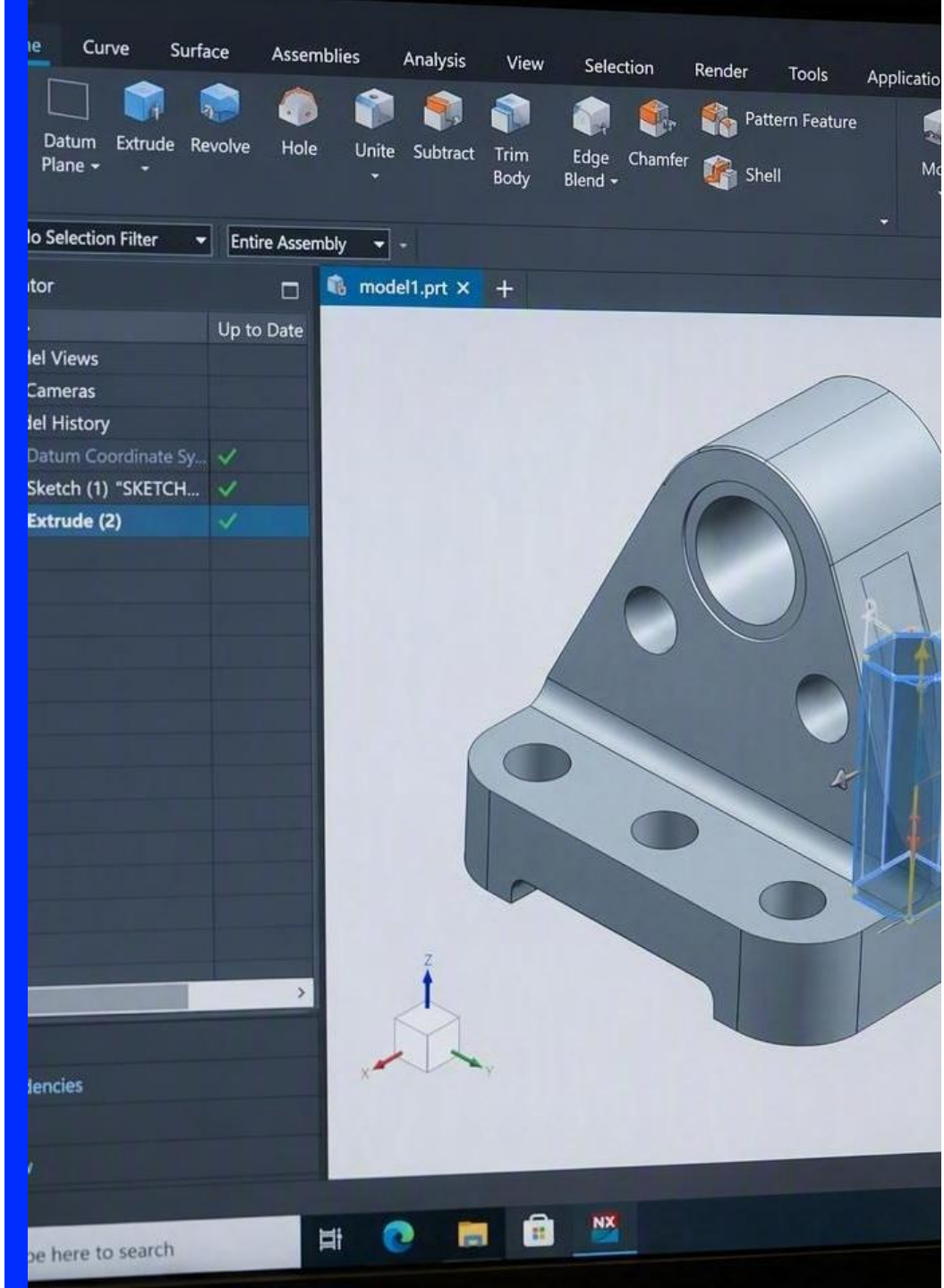


02 · COURSE OVERVIEW

Course overview

Across the five days you will create accurate technical drawings and 3D models, applying scale, precision and spatial awareness. The emphasis is hands-on: guided exercises and real-world design tasks.

YOU WILL FINISH WITH
A strong CAD foundation and detailed, functional designs



03 · WHAT YOU'LL LEARN

Course modules

Topic One The CAD environment and tools

Topic Two 2D sketching and constraints

Topic Three 3D modelling from 2D sketches

Topic Four Parametric design and editing

Topic Five Assemblies and multi-part design

Topic Six Professional CAD outputs



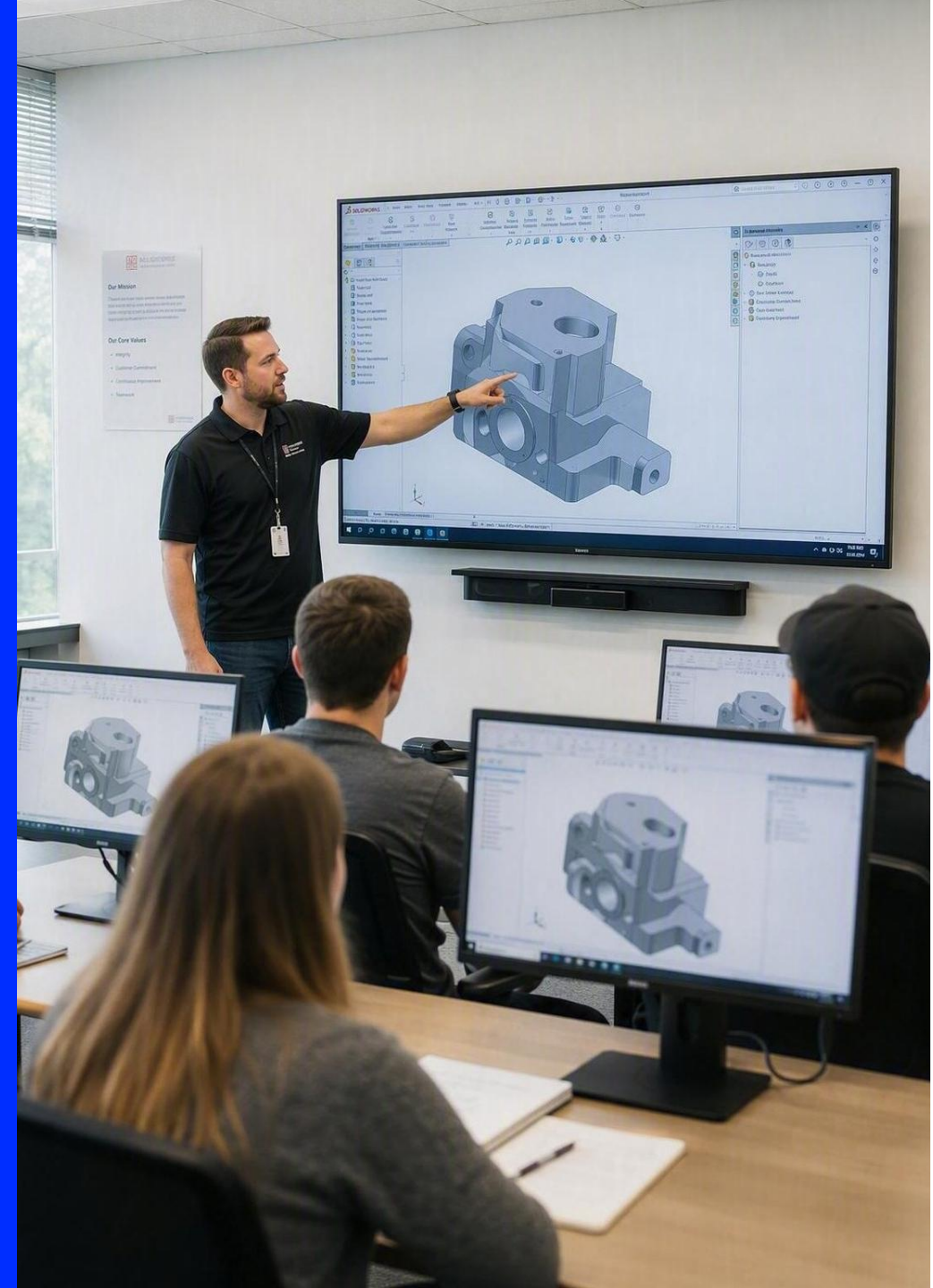
04 · MODULE ONE

CAD fundamentals

Get to know the CAD environment, its tools and interface, then learn essential 2D sketching — accurate shapes, applied constraints and dimensioning to produce precise technical drawings. You will also cover design standards and best practice for organising and structuring CAD files.

IN THIS MODULE

Sketching · Constraints · Dimensioning



05 · MODULE TWO

3D modelling

Build 3D models from your 2D sketches using extrusion, rotation and feature-based design, then refine them with editing and modification tools. Parametric principles show how models can be updated efficiently through controlled parameters, giving you flexible, editable designs.

IN THIS MODULE

Extrusion · Feature design · Parameters



06 · WHO IT'S FOR

Who it's for

Beginners

No prior CAD experience needed

Career changers

Fully funded via REACT+

Engineers

Precise technical drawings

Designers

Product concepts and prototypes

Technicians

Practical skills for manufacturing

Students & hobbyists **Digital models for 3D printing**



07 · ON THE DAY

A typical day

9:00 am Welcome and session start

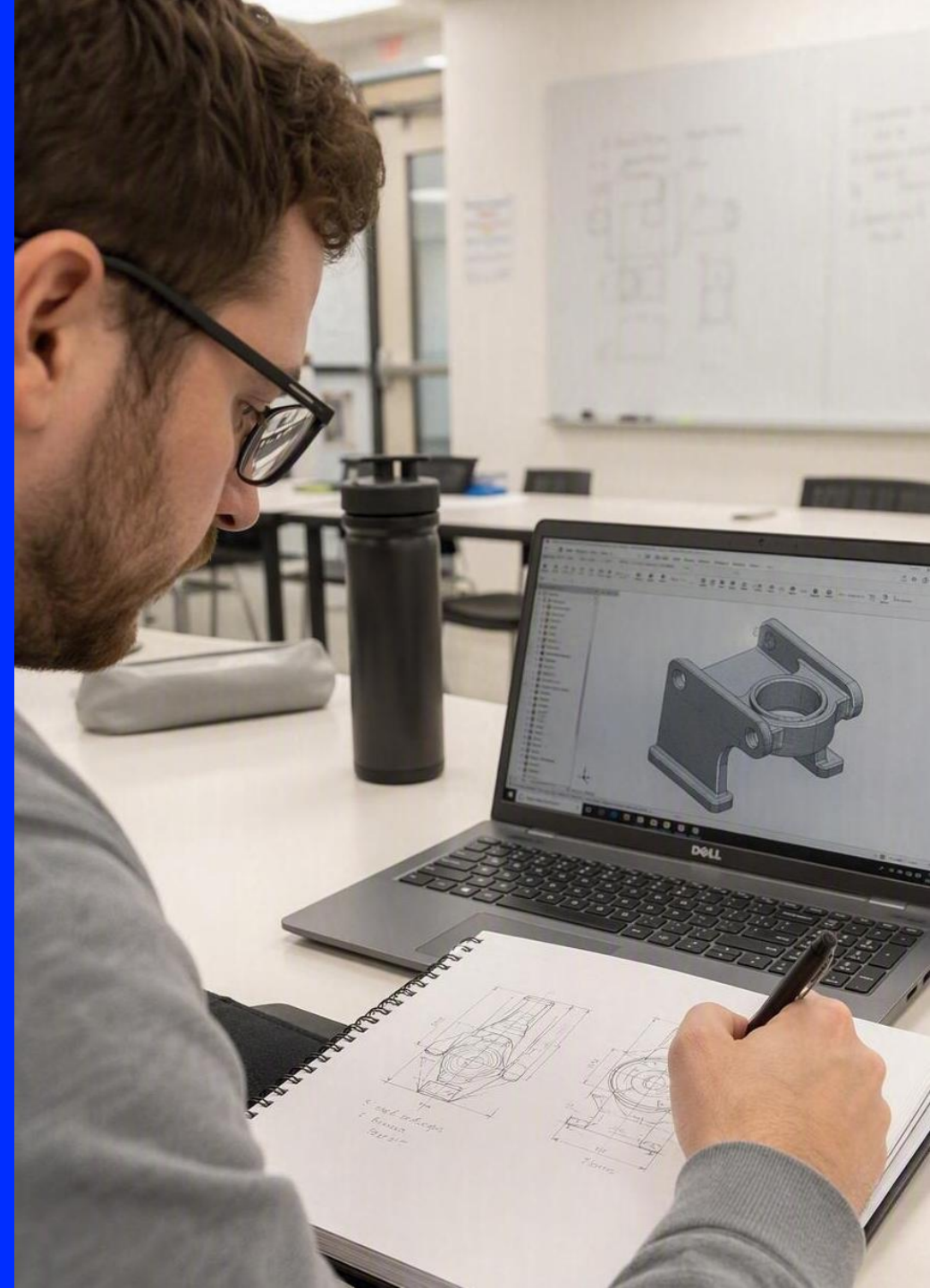
9:30 – 10:45 am Guided CAD session

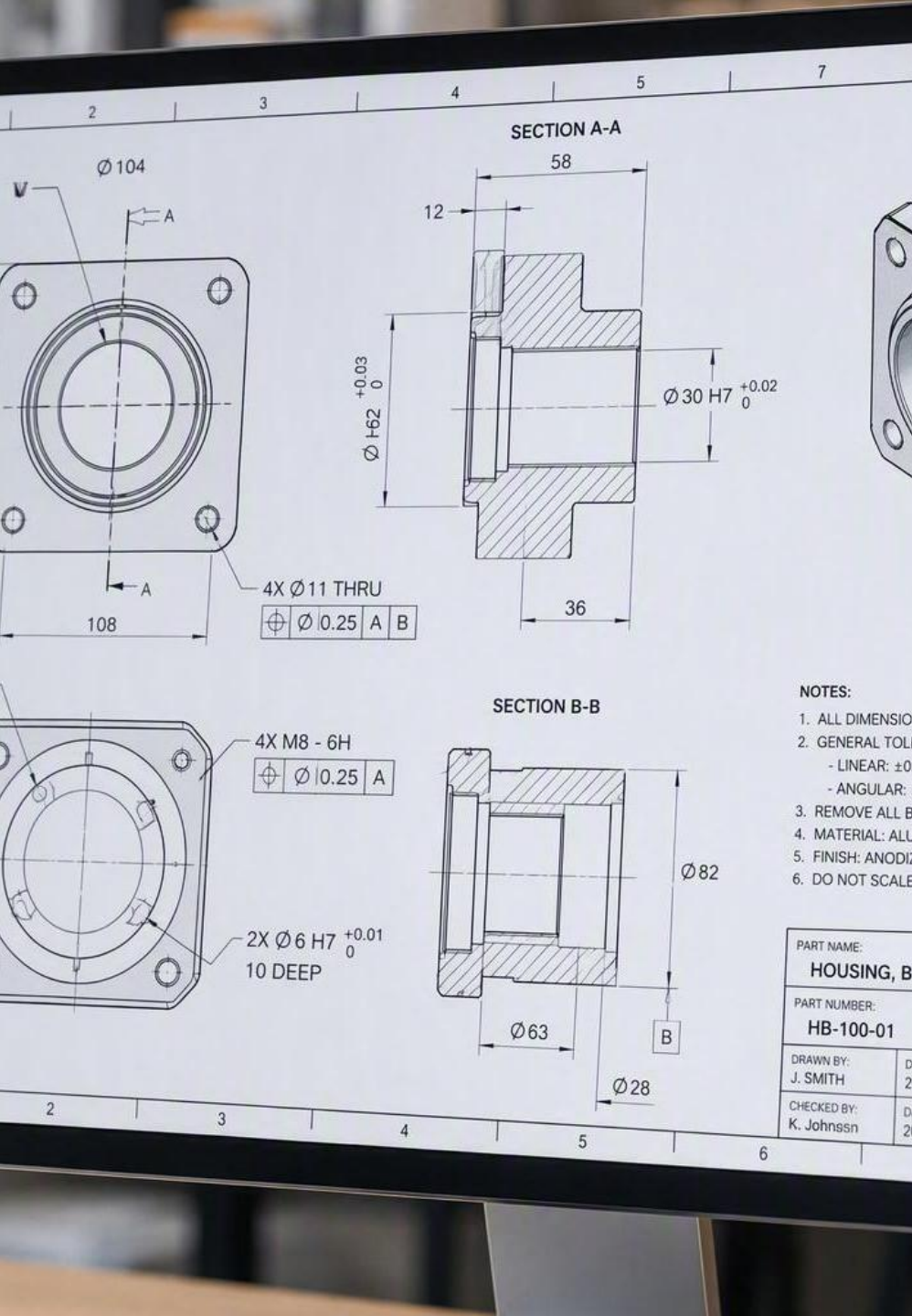
10:45 – 11:00 am Morning break

11:00 am – 12:00 pm Hands-on design tasks

12:00 – 1:00 pm Lunch break

1:00 – 4:00 pm Project work and review





Assemblies & projects

ASSEMBLIES AND WORKFLOWS

See how individual components fit together within larger systems, manage multi-part designs and produce detailed, professional CAD outputs.

YOUR PRACTICAL PROJECT

Apply every skill from the week in a full CAD workflow, from first concept through to a finished, presentation-ready design.



FULLY FUNDED THROUGH REACT+

Ready to start?

Talk to us about your place on the CAD Masterclass

www.ascenttrainingwales.co.uk

01656 737349 · hello@ascenttrainingwales.co.uk