CAD/CAM Training Course

CAD/CAM Overview

General Description

This full day course provides an opportunity to broaden your knowledge of CAD/CAM and understand how it can be integrated into your teaching. It will show by practical demonstration how 2D DESIGN V2 and SOLIDWORKS can be used to develop a variety of innovative projects for the KS3 – KS5 curriculum. Although not level or area-specific, the day will have relevance to all material areas in Design and Technology including Product Design, Engineering, Graphics and Textiles. Projects will be produced using the full-range of TechSoft machines including print-and-cut technique for graphics, laser image transfer, laser cutting and engraving, milling, rapid prototyping and knife-cutting. This is not a detailed training day on how to use machines and software (as such), but a chance to get some feel for the range of CAD/CAM technologies available, and some inspiration as to how they can support designing and making at a practical level.

The Course will Include:

- What is CAD/CAM? What is a picture and what is a CAD drawing? How a CAD drawing can be used to control a machine and the bit in between that makes it possible.

- Learn some key tips for success when working with 2D Design - how to create drawings for different practical outcomes.

- Why 3D CAD? How SOLIDWORKS takes CAD to the next level - a brief introduction to the software and examples of how this can be exploited in students' work.

- 2D and 2.5D projects. Tips for success and the range of machines and project options afforded by milling, knife-cutting, CNC embroidery and lasers.

- 3D manufacturing using CNC Milling (Subtractive Rapid Prototyping) and 3D Printing (Additive Rapid Prototyping). Demonstration and examples of typical student projects.

- Lots of case studies and project samples to explore and a look at how CAD/CAM can fit into a design-based curriculum that enables students to make real projects to meet real needs.

Coffee, tea and biscuits will be provided.

Dates & Venues can be found at www.techsoft.co.uk/training

To book a place on this course, please contact TechSoft UK Ltd on 01745 535007, or email sam@techsoft.co.uk, or book online www.techsoft.co.uk/training

Places will be limited so please book early to avoid disapointment

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