

Slicing 3D Printing

Course Code D06CF23E



Venue: **Room** ICT Suite

Hyde Park House
Mutley Plain
Plymouth
Devon

PL4 6LF

Start Date: 04 July 2023

End Date: 25 July 2023

Sessions: 4

Day(s): Tuesday

Start Time: 18:30

End Time: 21:00

Cost of course: No Fee

How do I enrol? You can enrol online at www.oncoursesouthwest.co.uk or call our friendly customer service team on 01752 660713 who will happily take your enrolment.

Entry Requirements This course is for complete beginners.

Course Intent The aim of this course is to give all learners an overview of knowledge and skills they need to understand and apply when looking at Slicing for 3D Printing.

Wherever possible we will put the weekly theory learning into practice as we begin the process of 'creating' and printing our own 3D designs.

The course will cover the following areas:

Introduction to 3D printing: What is 3D printing, how does it work, and why is slicing an important step in the process.

Understanding STL files: Explanation of the STL file format, what it is, and how it's used in 3D printing.

The role of slicers: Introduction to slicers, what they do, and why they're needed. Overview of different slicer software options.

Setting up your slicer: How to select the right slicer for your needs, installation and setup, and connecting it to your 3D printer.

Slice settings: Overview of the different slicing settings, such as layer height, infill, and support structures, and how to adjust them for optimal results.

Printing preparation: How to prepare your 3D model for printing, including scaling, orientation, and adding support structures.

Generating G-code: Explanation of G-code and how it's used in 3D printing, and how to generate G-code using your slicer.

Printing: The final step, how to initiate a print and monitor progress, troubleshooting common issues and making adjustments as needed.

Lighting and rendering: Understanding lighting and rendering in Blender, how to set up lights and cameras, and how to create a final rendered image of your model.

How will the course be delivered? This is a practical course and the sessions will include tutor-led demonstrations, learner-led activities, instruction and repetition. These will form part of the delivery together with one-to-one support as required.

Will I need to study or practise outside the classroom?	It's always good to practise your skills, your tutor may encourage home research.
How will I know I'm making progress?	Your tutor will set objectives for each session and give feedback on how you are progressing. You will agree personal targets as part of your Individual Learning Plan (ILP), and you will review your targets throughout the course to check your own progress.
What will I need for the course?	Please bring a pen and notepad to each session
Progression	Look out for information regarding follow on courses. Learning Advisors will be happy to provide you with information on your next steps after this course. Visit our website at www.uncoursesouthwest.co.uk or contact us on 01752 660713 to discuss or to make an appointment.
Please note	Most courses attract a subsidy from the Education and Skills Funding Agency and can be used to match funding for ESF. It is a requirement of the ESFA that you complete various forms at different stages of your course, further information is available on request. Courses are subject to a minimum number of enrolments and could be cancelled if recruitment is low. In some cases, an alternative class at a different location may be offered. Room numbers are subject to change - please check when you arrive at the venue.

On Course South West Tel: 01752 660713
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