3D Printing weekend course
26th to 29th April 2019.

Here are the details for the 3D printing course which will take place in the "Goods Shed" meeting room at the Rushden Transport Museum & Railway, Rushden Station, Northamptonshire, over the weekend 26th to 29th April 2019.

The course will run over the weekend with arrivals from 4pm on Friday afternoon 26th April to about 5pm on Sunday afternoon 28th April.

For those who arrive on Friday evening from 4pm onwards, we can get ahead with updating and installing the Sketchup and Netfab software on your laptop, reviewing what you hope to get from the course, and seeing some demos of 3D printing in action.

On Saturday and Sunday, the venue will be open from about 8am for tea, coffee and bacon butties, with the course starting at 9am on each day.

In addition to the weekend course, there is an optional follow-on practical workshop day on Monday 29th April. This day is a practical workshop for you to apply the knowledge learnt over the weekend, with the assistance of your tutor. If you have your own projects for 3D printing that you want to work on, we can assist with that on the Monday. Note that there will still be practical sessions during the main weekend, the all day Monday workshop is an additional option.

Your course tutor will be MERG 3D printing guru Bob Gledhill. We will limit numbers to a maximum of 12 to make sure everyone gets good value from the weekend.

The aim of this course is to enable those with little or no experience of CAD to draw and 3D print their first models. The course is 'hands on' and you will work at your own pace through a structured introduction to Sketchup Make, the free CAD program we will be using. 3D printers will be available so that you can experience the whole process from design to print.

Topics covered will include:

- Introduction to 3D printing

- Types of 3D printer
- Materials for 3D printing
- Setting up a 3D printer
- 3D scanning
- Installing and setting up Sketchup Make for 3D design
- Installing and setting up NetFabb for 3D printing
- CAD basics
- CAD specifics for 3D printing
- CAD methods for reliable 3D printing
- Taking your design from CAD to actual print
- Example projects that you can use or modify
- Hints and tips

This will be a practical course so that you can have a go on your own computer as we go along. You will need a computer or laptop running Windows 7, 8 or 10 with a mouse which has two buttons and a scroll wheel.

The course fee is £110, including a lunch in the RHTS buffet car on each full course day.

The fee for the optional extra Practical workshop day is £55, including lunch.

To book your place, please fill in the enrolment form and email to eastmids@merg.org.uk

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What to bring

All you need to bring is your computer and a suitable mouse with 2 buttons and a scroll wheel.
A laptop is ideal. We can also accommodate a desktop computer, but you will need to bring your own screen, keyboard and mouse.

Ideally your computer should run Windows 10, but Sketchup Make 2017 will also work on Windows 7 or 8 as well as on Apple MAC. For the latter, if you want to use it on a MAC, you should be fluent in general use of your MAC as your tutor is more familiar with the Windows version.

If you wish, you can install Sketchup Make 2017 before you come (search for it on Google), however this is not essential as we will have the install package for this and other utilities you will use ready for you to install from a memory stick.

Note that we will NOT be using the online "Sketchup Free" version, because it works via an online connection and up to a dozen people trying to use it at once on eh same wifi connection is likely to cause performance issues.
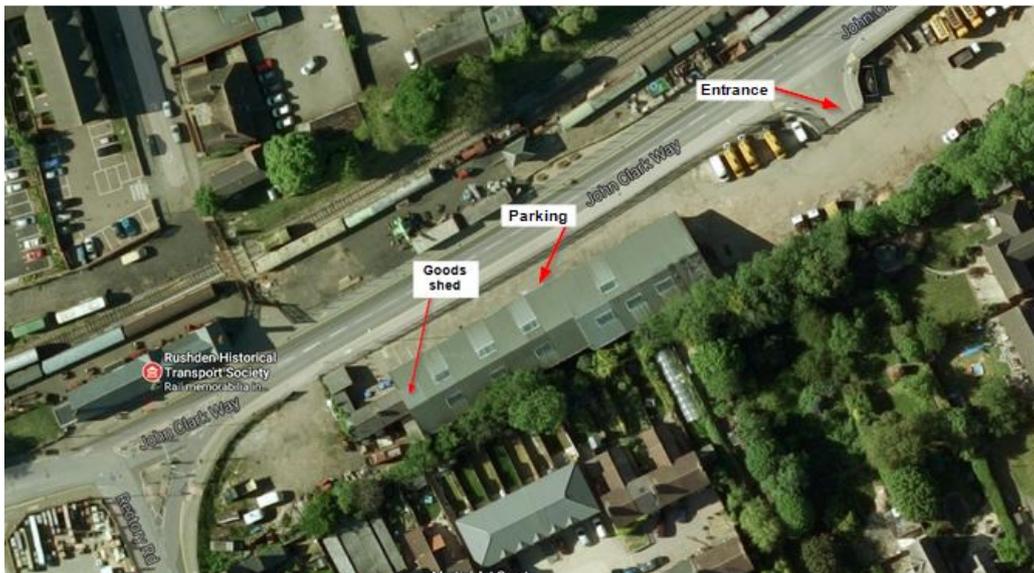
The Course Venue

The Goods Shed
Rushden Station
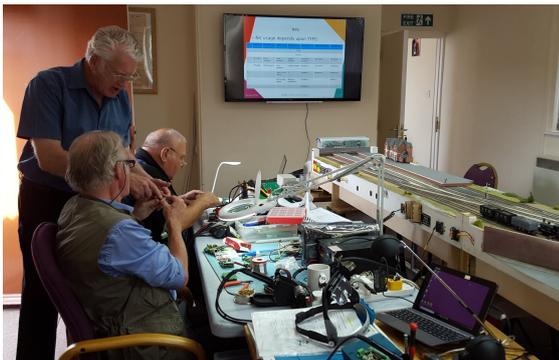**Rushden**
Northamptonshire
NN10 0AW

Rushden Historic Transport Society (RHTS) are based at the restored Rushden Station. They recently acquired the historic goods shed across the road, it having previously been in use as a council depot, which now forms part of the Rushden Transport Museum and Railway. See www.rhts.co.uk for more information.

Parking is available directly outside.

If you would like to come by train, the nearest main line railway station is Wellingborough. We can arrange to collect you from the station.

Recently completed by the volunteers at Rushden, there is now a fully compliant wheelchair ramp to the venue. Please let us know if you have any mobility requirements, so that we can ensure that all your needs are met. If you need more information about accessibility, please get in touch.

These photos were taken at a recent CBUS course. For 3D printing, we won't be expecting the chaos of tools, soldering irons and circuit boards, just a line of laptops and some 3D printers in the middle.

Local Accommodation

The course fee does not include overnight accommodation so, unless you live locally enough to travel each day, you will need to book your own hotel.

Here is a list of some local hotels. This list is not exhaustive, and the inclusion or not of a hotel on this list does not imply any particular recommendation or otherwise.

You can also try online booking websites such as trip advisor, laterooms.com, booking.com and trivago.co.uk

Travelodge Wellingborough Rushden

**A45 Eastbound,
Rushden,
Northamptonshire
NN10 6AP**

**Tel: 08719 846115
www.travelodge.co.uk**

About 1.7 miles from the course venue

The Stanwick Hotel

**West Street,
Stanwick,
NN9 6QY, United Kingdom**

**Tel: 01933 622233
www.thestanwickhotel.co.uk**

About 3.3 miles from the course venue

Redlands Farm Bed & Breakfast

**Redlands Farm,
West Street,
Stanwick,
NN9 6QZ**

**01933 355169
www.redlandsenterprisesc.ipage.com**

About 4 miles from the course venue

Premier Inn Wellingborough

London Road,
Wellingborough,
Northamptonshire
NN8 2DP

Tel: 0871 527 9144
www.premierinn.com

About 4.6 miles from the course venue

The Hind Hotel

38 Sheep Street
Wellingborough
NN8 1BY

Tel: 01933 222827
www.facebook.com/TheHindHotel

About 5.5 miles from the course venue

IBIS Wellingborough

Enstone Court
Wellingborough
NN8 2DR

Tel: 01933 228333
www.ihg.com

About 5.8 miles from the course venue.

Millhouse Hotel

Mill Road,
Sharnbrook,
MK44 1NP

Tel: 01234 781678
www.millhouse-riverside.co.uk/

About 6 miles from the course venue