



**MISSENDEN ABBEY RAILWAY MODELLERS WEEKEND**  
**Recommended tool and equipment list/books and references**  
**Semaphore Signalling**

**Materials you will need to bring:**

- Suitable parts to build your signals (see supplier list below).
- Essential basic tools including a cutting mat, craft knife, steel rule, small files, 5-sided cutting broaches, small engineer's square, a selection of small drills (e.g. 0.4 to 1.0mm), pin vices, glass fibre brush etc.
- Soldering iron & stand, 188 and 145 degree solder and your preferred flux.
- Selection of suitable acrylic paints & brushes – e.g. white, black, red, yellow, dark grey.
- If you have them, items such as piercing saw/blades, cordless mini-drill (plus safety goggles), sharp pointed centre-punch, digital Vernier calliper, low tack masking tape.

If you do find on the weekend that you're short of certain parts then the tutor will have a modest selection of spares and extras available.

**Suggested suppliers:**

**General modelling supplies and tools etc. -**

- Eileen's Emporium - <https://eileensemporium.com/>
  - *Good general supplier of raw materials and tools: On line and at various shows.*
- Hobby Holidays - <http://www.hobbyholidays.co.uk/>
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**Signal Components etc.-**

- Hobbyking - <https://hobbyking.com/>
  - *Supplier of servos (including HK-SCM9 Micro range and HK-5330 Ultra Micro type).*
- Masokits (Michael Clark) - <https://traders.scalefour.org/masokits/>
  - *Mail order only, but catalogue downloadable from Scalefour Society Website (hosted trader). A range of etched parts including posts, arms & ladders etc.*
- Modelu: <https://www.modelu3d.co.uk/>
  - *An expanding range of 3D printed signal lamps and finials in 4 & 7mm scales*

- Scale Signal Supply – 135 Green Meadows, Westhoughton, Bolton. BL5 2BW. 01942 817350.
  - Supplier of 7mm scale signal kits and components. Mail order only (and some shows), but the range can also be purchased via Invertrain – <https://www.invertrain.com>
- Wizard Models (incorporating Model Signal Engineering)- <https://www.wizardmodels.ltd/>
  - Supplier of an extensive range of signal kits and components in various scales. On line sales only.

#### Electronic components –

- Megapoints: <https://megapointscontrollers.com>  
Servo driver boards etc. On line and at various shows.
- MERG - <https://www.merg.org.uk/>  
Application of electronics & computers to all aspects of railway modelling. A range of suitable MERG electronic kits and various components for use in signal operation will be available to purchase during the weekend.

#### Some useful books/articles etc. (and websites) to aid with model signal construction

Not exhaustive but ones I've found useful.....

Steve Hewitt. RMweb <https://www.rmweb.co.uk/community/index.php?/topic/59687- semaphore-signals-4mm-scale-mainly/>

- An excellent thread on building all types of signals and fitting them with both lights and servos. Well worth a look, there's lots on there.

**Nicholson, Mick. Mainline Modelling: 1. Constructing & Operating Semaphore Signals.**

- Good overall guide to signal building in 4mm scale.

Mundy, Derek L. **Signals for the Railway Modeller.** ISBN 0-9508340-0-9.

- Good introduction to the subject and of suitable parts now available from the Wizard Models range.

Squibb, Peter. **A Scratchbuilder's Guide to Semaphore Signal Construction.** Wild Swan Publications. ISBN 978-1-905184-68-2.

- Concentrating mainly on 7mm scale, but a very useful reference for GWR signals in particular.

Vaughan, Adrian. **A pictorial Record of Great Western Signalling.** Oxford Publishing Co. ISBN 0-902888-08-0.

Warburton, Graham. **A Pictorial Record of LMS Signals.** Noodle Books (Kevin Robertson). ISBN 978-1-906419-41-7.

- The guide to all aspects of LMS signalling, really useful for modellers.

Warburton, Graham. **Running Line to Loop Signal** – a feature in Rail Model Digest Issue No. 1. ISBN 1-900349-02-7.