JMRI Part 2 – Blocks, Routing, Logic and Signalling

12th-14th September 2020 (Rushden)

The course will take place in the “Goods Shed” meeting room at the Rushden Transport Museum & Railway, Rushden Station, Northamptonshire.

This is part 2 of our three JMRI courses, also referred to as “More JMRI”.

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

In addition to the weekend course, there is an optional follow-on practical workshop day on the Monday. This day will be purely a practical workshop session for you to apply the knowledge learnt over the weekend, with the assistance of the tutors. If you have your own layout hardware that you want to work on with JMRI, we can also assist with that on the Monday

This course will take you through train detection and identification, entry exit routing and signalling using signal mast logic.

This is a weekend course for those already familiar and competent with the basics of JMRI.

As a pre-requisite you should have attended our introduction to JMRI Panel Pro course, or be fluent with drawing a layout diagram in the Layout Editor, setting up turnouts & sensors, turnout feedback, linking from a Layout Editor Panel to the physical layout, use of blocks & the basics of train detection.

We will be using the JMRI Panel Pro Layout Editor throughout.

Topics covered will include:

- What's new in JMRI
- Revision of block detection and train tracking
- Choosing where blocks start and end, which rails to detect
- Detecting trains on frogs and crossings
- Real vs virtual blocks
- Train identification - Reporters – RFID
- Logix – “If this then do that”
- Entry-Exit (NX) routing
- Signal heads vs Signal Masts
- Setting up control of signals using signal masts – semaphore and colour light
- Signal mast logic (we will use BR 2003 rulebook signals for our examples)
- Signal feathers using Logix
- Semaphore junction signals using signal groups
- Approach control
- Permissive working
- Customising signal mast icons
- Block routing
- Diving into JMRI XML files as and when we need to
- A brief look at scripting – write your own program within JMRI

This will be a practical course so that you can have a go on your own computer as we go along.

The following documents are just being updated.

When the links turn green (instead of red), you can then download more details and the booking form below:

JMRI Part 2 – Blocks, Routing and Signalling course details

Booking Form:

JMRI Part 2 weekend course enrolment form

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https://www.merg.org.uk/merg_wiki/ - **Knowledgebase**

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