

# INTERMEDIATE SIGNALLING TECHNOLOGY (INITIAL PATHWAY)

## DESCRIPTION

This course provides the underpinning knowledge to work as a Signalling Principles Designer (Scheme) on the MTM Metropolitan Rail Network and V/Line Regional Rail Networks.

## AUDIENCE

This course is for participants who hold the Signalling Designer – National role and wish to progress to the role of MTM or V/Line – Signalling Principles Designer (Scheme). This course will validate the MTM or V/Line – Signalling Principles Designer (Scheme) Job Role and support the participant with the assessment of their Signalling Principles Designer – National Job Role.

## COURSE OBJECTIVES

This course will cover the following objectives:

- Understand the role and responsibility of Signalling Principles Designer (Scheme) and limits of authority
- Understand the design and testing process, interrelationship, impact on project timescales and approval process
- Understand and describe safe working systems in Victoria (including failure modes)
- Understand factors that impact on braking or acceleration of different rolling stock calculation
- Understand and explain effects of permitted rolling stock on the signalling solution
- Understand aspect sequences and prepare aspect sequence charts
- Understand and explain safety and operational implications relevant to the design of schemes regarding
- Identify junction signalling issues and typical solutions
- Understand and demonstrate route locking, maintaining and releasing requirements
- Demonstrate and apply the principles of

- Understand, calculate and explain level crossing approaches
- Describe key aspects of future train control systems

## DISCLAIMER

Detailed objectives and performance criteria will be provided on Day 1.

## DURATION

- Nine and a half (9.5) Days Classroom Delivery
- Half (1/2) Day Knowledge Assessment

## DELIVERY MODE

- In Person Classroom Delivery

## ASSESSMENT METHOD

- Knowledge Assessment

## IMPORTANT

Participants must bring their own device to complete the online Knowledge Assessment.

## COURSE PREREQUISITES

- Participant **MUST** be 18+ years of age
- Participants are required to have met the following pre-requisites to commence:
  - Hold a valid Rail Industry Worker (RIW) card
  - **Design Pathway** - Hold a valid Signalling Designer – National Job Role **and** a valid MTM or V/Line Signalling Designer Job Role
- OR**
- **Testing Pathway** – Hold a valid Signalling Function Tester – National Job Role **and** hold a valid MTM or V/Line Function Tester Job Role

- **Note.** The Testing pathway requires the RIW Cardholder to hold a valid MTM or V/Line Basic Signalling Technology competency

## PREREQUISITE VERIFICATION

- Verifications will normally be completed by MTA within two (2) business days
- Participants will not be able to proceed with enrolment until verifications have been confirmed

## COURSE COMPLETION

Participants who successfully complete all requirements of this course will be awarded a Certificate of Completion (CoC). This certificate is accepted on the MTM Metropolitan Rail Network and V/Line Regional Rail Networks (not including ARTC networks).

## RIW CERTIFICATE UPLOADS

Metro Trains Australia (MTA) will upload the participant's certificate to the RIW database and the Training Hub.

Uploads will be completed by MTA, normally within two (2) business days of CoC being issued.

## TRAINING DAY REQUIREMENTS

On the day of training participants are required to bring:

- Valid RIW Card
- The following Personal Protective Equipment (PPE) items:

	
Steel capped lace up boots with ankle support	Full length trousers
	
Rail Approved Orange Hi-Vis vest	Long sleeve shirt

### IMPORTANT

Participants cannot commence training without an RIW card and PPE.



## CLASSROOM VENUE

**Rail Academy Newport (RAN)**  
**Shea Street, Newport VIC 3015**

- Vehicle and pedestrian access to the RAN is via Shea Street, off Champion Road.
- Note, pedestrian access is **not** available directly to the RAN from Newport Railway Station, it is up to a 30 min walk to Shea Street.



## INFORMATION & BOOKINGS

<https://training.metrotrainsau.com>