

ADVANCED SIGNALLING TECHNOLOGY (INITIAL PATHWAY)

DESCRIPTION

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

AUDIENCE

This course is for participants who hold the Signalling Principles Designer – National role and wish to carry out Signalling Principles Interlocking tasks on the MTM or V/Line Networks.

COURSE OBJECTIVES

This course will cover the following objectives:

- Understand the role and responsibility of Signalling Principles Designer limits of authority when undertaking Interlocking function designs
- Understand the design and testing process, interrelationship, impact on project timescales and approval process related to Interlocking functions
- Understand and explain complex overlap controls
- Understand and explain advanced Singal Controls and Forward Route Setting application controls
- Understand and explain controls for Single Line Sections and associated risks in Interlocking function
- Understand and explain complex Railway Crossing Applications including complex approaches, Express & Stopper controls, Signal interlocking conditions and Traffic Light Co-ordination
- Understand and explain risks associated with Proceed Authority Exceedance with a Railway Crossing
- Understand and demonstrate Interlocking Boundary methodologies relating to Control Methodologies, Interlocking Architectures, Trackside Architectures and positioning of a Cross Boundary
- Understand and explain Axle Counting system applications with Interlocking interfaces and Reset considerations

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
 - Hold a valid Signalling Principles Designer – National Job Role
 - Hold a valid MTM or V/Line Signalling Principles Designer – NEW Job Role and valid Intermediate 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>