

RL D 79801

One Method of Safe Working

1 Principle

All workers (as defined in the Work Health and Safety Act 2011 [NSW]) and contractors must perform work in accordance with the SMS, including the ENSR, and incorporate the requirements of the Sydney Trains Safety Management System (SMS) and ENSR into their Safe Work Method Statements where applicable.

While at work, all workers must take reasonable care for their own health and safety, as well as the health and safety of others, and acknowledge how individual actions or omissions at work can affect others. Workers must comply with the Network Rules, Network Procedures and other safe working documents, prescribed by Sydney Trains, and will be regarded as having fulfilled their responsibility and accountability.

2 Foreword

The SMS combined with the Sydney Trains Electrical Network Distribution Management System, in accordance to relevant codes of practice, are the basis for the development of the Electrical Network Safety Rules and the supporting suite of documents based on the Five Primary Principles.

3 Safety first

At all times and in all workplaces, workers have a duty to take reasonable care of their own health and safety while at work, and also to take reasonable care so that their conduct does not adversely affect the health and safety of other persons at the workplace. A hazard and risk assessment should be conducted prior to commencing work.

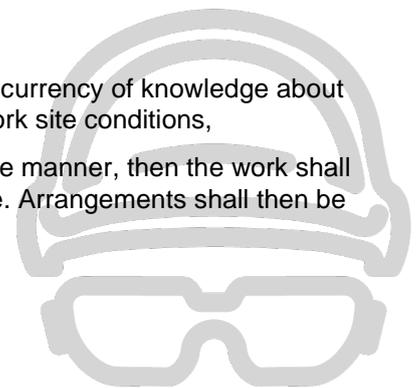
Workers must keep their mind focused on the work, particularly when:

- operating electrical equipment, or
- working near or on/within of live equipment, or
- working near cables, cable pits or cable chambers, or
- when working aloft.

If for any reason:

- an Authorised Person, or
- any person in the work party, or
- a Manager directly associated with the work who has currency of knowledge about the project, people, processes, tasks, hazards and work site conditions,

considers that the work cannot be done or completed in a safe manner, then the work shall not be commenced or the work shall stop as the case may be. Arrangements shall then be made for the work to be carried out in a safe manner.



3.1 Personal Protective Equipment for Electrical Safety

All workers must follow the Sydney Trains requirements regarding personal protective equipment, specifically referring to instruction *D2013/80874 PPE for Electrical Work* and *SMS-06-GD-3323 Personal Protective Equipment* for appropriate clothing and footwear in general.

Additional arc rated protective clothing may be required in some circumstances, as a result of workplace risk assessment and in alignment with requirements by the Energy Network Association (ENA) NENS 09 National Guideline and D2013/80874.

The wearing or carrying of personal metal effects such as chains, watch bands, bracelets, body piercing jewellery, exposed metal zips, rings, keys and tools may constitute a danger when working near or on/within live equipment. Such items shall be removed prior to any electrical work being performed near or on/within live electrical equipment.

3.2 High visibility clothing

Wearing high visibility clothing is mandatory when entering the railway corridor, substations/section huts or buildings, and at those locations where it is necessary to draw the attention of vehicular and pedestrian traffic; e.g. when undertaking traffic management.

Refer to SMS-06-GD-3323 Section 6.2 for full requirements.

3.3 Personal Protective Equipment for operating work

In addition to the PPE requirements of Sections 3.1 and 3.2, an occupational protective helmet shall be worn for operating work.

An occupational protective helmet shall be worn when carrying out the following switching operations and related work:

- opening or closing of circuit breakers or isolators of any type or voltage rating that are mounted aloft, or
- operating of any fuse or link that is mounted aloft, and through the use of an insulated operating stick, or
- applying or removing earths from aerial lines, or
- applying or removing rail connections from 1500 Volt DC overhead wiring.

In addition, safety eye protection shall be worn and appropriate face protection (i.e. a full face arc shield) shall be considered prior to switching operations.

NOTE

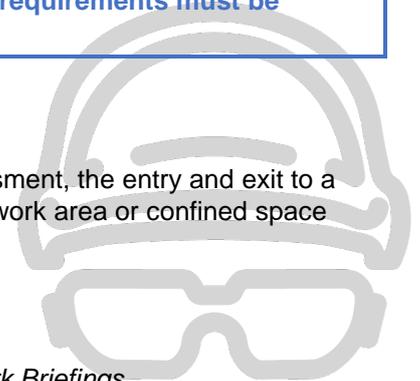
Equipment specifications regarding Personal Protection requirements must be followed.

3.4 Entrances and exits NOT to be obstructed

Except for brief periods of inspection in line with a risk assessment, the entry and exit to a substation, cable chamber, cable tunnel, an electrically safe work area or confined space shall not be obstructed.

3.5 Pre-work Briefings

Workers are required to adhere to *SMS-06-OP-3114 Pre-work Briefings*.



4 Precautions when leaving work unfinished

All workers have a responsibility to ensure that the work they are performing does not present a health and safety risk to others at the workplace. This also means leaving the workplace in a safe state for access by others.

Means of making the workplace safe should include the following:

- ensuring that live parts are properly enclosed, exposed conductors terminated and, where necessary, provided with mechanical protection, and
- physically securing cables, and
- tagging and taping off cables, and
- where appropriate, informing relevant parties that the work is not complete, and
- taking any necessary precaution to ensure that equipment associated with the work cannot become energised, and
- ensuring that switchboards are clearly and correctly labelled in relation to their status
- ensure excavations are filled in or barricaded.

ICON Electrical and the Regional Electrical Engineer shall be informed when any work is unfinished and the work party is to leave the workplace.



5 Reference documents

The following documents provide a subset of relevant supporting information. This list is not exhaustive:

D2013/80874 PPE for Electrical Work

PR D 78102 Electrical Hazards and Warnings

PR D 78108 Pre-work Hazard Assessment and Controls for Work on Poles with Live Exposed Equipment

PR D 78108 FM01 Pre-work Pole Hazard Assessment

PR D 78109 Pole Top Rescue Kits

PR D 78700 Working around Electrical Equipment

Rail Safety Act

RL D 79800 Electrical Network Safety Rules

SMS-01-SR-3000 Safety Management System Requirements

SMS-06-OP-3026 Work Health and Safety (WHS) Risk Management

SMS-06-SR-3006 Control Verification Protocols

SMS-09-SP-3021 Records Management

SP D 79035 Sydney Trains Electricity Distribution Management Plan

SP D 79039 Electrical Tools and Test Equipment

SP D 79041 Insulated Sticks, Tools and Equipment used for work near or on/within Exposed Electrical Equipment – Inspection, Testing, Care and Maintenance

SP D 79041 FM01 Test Sheet for Insulated Sticks, Tools and Equipment used On, Near or In the Vicinity of Exposed 1500V

SP D 79042 Description and Labelling of the High Voltage Feeder System

SP D 79043 Inspection and Care of Portable Earthing Equipment for the High Voltage System

SP D 79043 FM01 Inspection of Portable Earthing Equipment for the High Voltage System

SP D 79044 Description and Labelling of the 1500 Volt DC OHW System

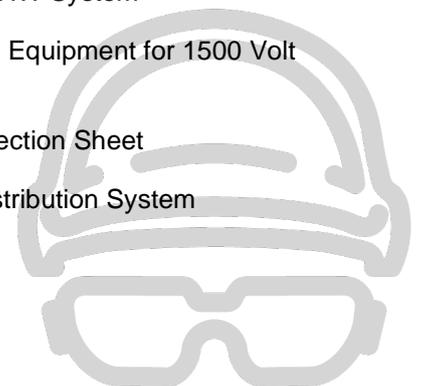
SP D 79045 Inspection and Care of Portable Rail Connecting Equipment for 1500 Volt Overhead Wiring

SP D 79045 FM01 Portable Rail-Connecting Equipment Inspection Sheet

SP D 79046 Description and Labelling of the Low Voltage Distribution System

SP D 79056 Special exception from working to the ENSR

SP D 79056 FM01 Electrical Network Safety Rules Waiver



6 Document properties

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1.0	1 February 2022	ENSR Project Team	First issue as Sydney Trains document. Extracted from PR D 78000 Electrical Network Safety Rules and PR D 78101 General Requirements for Electrical Work. Reviewed as part of the ENSR Project.

