NR/L2/CTM/012/027 Competence & Training in Signal Engineering

Sig 27: Assemble system and sub system component parts.

1 Purpose.

The purpose of this competence standard is to define the competence requirements for persons required to assemble signalling system and sub system component parts.

2 Scope.

This competence standard applies in all circumstances where any person is required to assemble signalling system and sub system component parts on Network Rail managed infrastructure.

The level and extent of responsibility will include their own safety and that of others who might be affected by their work. The person will be expected to refer to others for authorisation when required, will be responsible for the implementation of the instructions and will work within set procedures and specifications. The person is responsible for the quality of their completed work.

This competence standard shall be used to assess the competence of people installing any of the following:

- Equipment Racking.
- Trunking.
- Relay bases.
- Relays.
- Transformers.
- Modules.
- Fuse Holders.
- Terminal Blocks.

A separate competence standard applies when a person is required to install and terminate wires and cables.

3 Competence Standard.

This Competence Standard comprises one element.

Element 1 Assemble system and sub system component parts.

This is concerned with the safe installation of equipment in accordance with design specifications.

To prove competence in this unit, the person shall demonstrate their ability to complete installation in accordance with instructions. The person will have to show they can follow recording procedures and can follow reporting and escalation procedures.

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4 Assessment.

4.1 Initial Assessment

Where the equipment is new to the person's area of responsibility evidence should be used from the satisfactory completion of training and mentoring and shall be gathered as defined in element 1.

Performance evidence may come from a variety of sources and will include evidence derived from surveillance (direct observation) by an approved assessor. Evidence will also include detailed questioning and may additionally be supported by performance reports from the person's line manager.

4.2 Re-Assessment

Re-assessment shall be completed in accordance with the applicable requirements set out in **7.2** of NR/L2/CTM/012.

4.3 Knowledge Evidence that is common to the whole unit.

You shall have knowledge and understanding of:

a) How the installation activity may affect the safe operation of the railway.

b) What procedures need to be followed to demonstrate operational and personal safety is maintained during the work.

c) How to avoid personal injury during the work.

d) What each of the component parts being installed contributes to the overall operation of the signalling system.

e) What tools are required to complete the work and what equipment calibration is required.

f) What the limits of your responsibility and authority are.

g) Who is responsible for taking the equipment out of operational service and handing the equipment back the equipment to operational service.

h) Installation reporting documentation.

i) Reporting lines and escalation procedures.

j) Industry protocols relating to communication important safety information.

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