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| Ref:             | NR/L2/CTM/012/023 |
| Issue:           | 1                 |
| Date:            | 06 March 2010     |
| Compliance date: | 04 September 2010 |

## NR/L2/CTM/012/023 Competence & Training in Signal Engineering

### **Sig 23: Undertake initial diagnosis of failures to determine the necessary course of action.**

#### **1 Purpose.**

The purpose of this Competence standard is to define the requirements for persons required to carry out the initial investigation into reported signalling failures, classify the fault and diagnose it to a possible faulty system or equipment.

#### **2 Scope.**

This Competence standard applies in circumstances where any person is required to locate faults on any signalling equipment 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.

#### **3 Competence Standard.**

This Competence Standard comprises two elements.

- Element 1 Gather information relevant to the reported failure to determine fault classification.
- Element 2 Carry out initial diagnosis of failures in the signalling system or equipment.

The first element is concerned with the gathering information and deciding the type of failure in and the second element deals initial diagnosis of the fault to enable efficient rectification.

To prove your competence in this unit, you must demonstrate your ability to make an initial judgement about a fault, how that fault affects the signalling system and classify the fault as right or wrong side. You will have to show you can follow recording procedures and can follow reporting and escalation procedures.

#### **4 Assessment.**

##### **4.1 Initial Assessment**

Where the equipment is new to the person's area of responsibility the evidence requirements defined in each element apply. Due to the difficulty in collecting evidence by observation in the workplace the primary source will be from training except for element one where some performance evidence shall be collected as described in the element.

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.

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## 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.

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