NR/L2/CTM/012/037 Competence & Training in Signal Engineering

Sig 37: Inspect Level Crossings

1 Purpose.

The purpose of this competence standard is to define the competence requirements for persons required to inspect level crossings.

2 Scope.

This competence standard applies in all circumstances where any person is required to inspect level crossings 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 employee 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 employee is responsible for the quality of their completed work

3 Competence Standard.

This Competence Standard comprises one element.

Element 1 Inspect Level Crossings.

To prove competence in this unit, the employee shall demonstrate their ability to complete work in accordance with instructions. The employee will have to show they can follow recording, 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.

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.

Where knowledge is not inferred in the performance evidence then questioning shall be used to establish that the employee has the knowledge described in the knowledge statements in the element. The use of standard, written, knowledge tests is the preferred method of producing such evidence.

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You shall have knowledge and understanding of:

a) What the key component parts are and how each of the component part contributes to the overall operation of the crossing.

b) What road marking and signage is required at each type of crossing.

c) How each type of crossing is designed to function under normal operating conditions.

d) What terminology and methods are used to identify the position of road signals and any barriers and describe the position of the barriers.

e) What documentation applies to the inspection of level crossings including site plans, specifications and procedures.

f) Where the documentation can be accessed and what to do if documentation is missing

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

h) What inspection methods and procedures apply to each of the crossing types.

i) What inspection schedules and related specifications apply to the inspection of crossings.

j) What the scope of the inspection includes and how to demonstrate that all items are covered

k) What types of defect can occur and how to check for these defects.

l) What the repair options are for each of the defects and how to prioritise the repair.

m) Which defects require immediate closure of the line/road and how to effect such closure

n) Who else is involved in the inspection.

o) Who needs to be contacted before the inspection starts and when the inspection is complete.

p) What communication protocols apply

q) How to select the appropriate inspection plans/reports for each type of crossing.

r) How to complete the inspection report and how it should be processed following completion of the inspection

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

t) How to avoid personal injury during the inspection work.

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

v) How the inspection activity may affect the safe operation of the railway.

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

x) What reporting lines and procedures apply to the inspection of level crossings

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