Depot Plant Operation Competence Framework

[version 1.0]

Content

1 Depot Plant Competence Framework

1.1. Framework Overview

	COMPETENCE TITLE	Route to Competence *More details in NR/L2/CTM/230 standard and within each DP competence module*	Regime *see NR/L3/CTM /306*	Re-assessment (years)	No. of practice per 12 months
0	**PTMP 00 Core**	Individuals shall attend PTMP 00 Core E-Learning course and pass the relevant assessment. *This course shall be completed prior to all Depot Plant competencies*	5	5	n/a
1	**DP 18 Safe use of Overhead Gantry Crane**	**Individuals shall hold the PTMP 00 Core as prerequisite before attending this course.** Individuals required to operate Overhead Gantry Crane shall have successfully passed a relevant accredited course which is compliant with BS 7121: Code of Practice for Safe Use of Cranes To prove competence in this unit, the candidate shall demonstrate their ability to prepare and use the Overhead Gantry crane safely.	4	3	6
2	**DP 19 Safe use of Konecranes CXT Series hoists**	**Individuals shall hold DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate Konecranes CXT Series hoists shall have relevant training for safe use of Overhead Gantry Crane which is compliant with BS 7121: Code of Practice for Safe Use of Cranes Individuals required to operate the Konecranes CXT Series Hoists shall have successfully passed the relevant OEM training course for the safe use of Konecranes CXT Series hoists. To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Konecranes CXT Series hoists.	3	2	6
3	**DP 21 Safe use of Flash butt welding [SCHLATTER]**	**Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate the Flash butt welding machine [SCHLATTER] shall have successfully passed a relevant training course for the safe use of Flash butt welding machine [SCHLATTER] To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Flash butt welding machine [SCHLATTER].	4	3	6
4	**DP 22 Safe use of Press Machine [GEISMAR]**	**Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate the Press machine [GEISMAR] shall have successfully passed a relevant training course for the safe use of Press machine [GEISMAR]. To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Press machine [GEISMAR].	5	5	3
5	**DP 23 Safe use of Grinder Machine [GEISMAR]**	**Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate the Grinder machine [GEISMAR] shall have successfully passed a relevant training course for the safe	5	5	3

		use of Grinder machine [GEISMAR]. To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Grinder machine [GEISMAR].			
6	**DP 24 Safe use of Weld Bend Test machine [MIRAGE]**	**Individuals shall hold DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate Weld Bend Test machine [MIRAGE] shall have successfully passed a relevant training course for the safe use of Weld Bend Test machine [MIRAGE]. To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Weld Bend Test machine [MIRAGE].	5	4	4
7	**DP 25 Safe Use of Band Saw [KASTO MAC380 and Pro Saw]**	**Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate Band Saw [KASTO MAC380 and Pro Saw] shall have successfully passed a relevant training course for the safe use of Band Saw [KASTO MAC380 and Pro Saw]. To prove competence in this unit, the candidate shall demonstrate their ability to safely use Band Saw [KASTO MAC380 and Pro Saw].	5	5	2
8	**DP 26 Safe use of Brush Machine [NENCKI]**	**Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.** Individuals required to operate Rail end Brushing Machine [NENCKI] shall have successfully passed a relevant training course for the safe use of Rail end Brushing Machine [NENCKI]. To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Rail end Brushing Machine [NENCKI].	4	5	3
9	**DP 27 Safe use of Conveyors [LWRD]**	**Individuals shall hold PTMP 00 Core as prerequisite before attending this course.** Individuals required to operate the Conveyor [LWRD] shall have successfully passed the relevant OEM training course for the safe use of Conveyor [LWRD]. To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Conveyor [LWRD].	4	4	4

1.2. Summary

The Rail Plant CDG manages the Depot Plant competence framework through competence development working group workshops and will be updated as new depot plant competences are required or hazards identified.

Units of competence have been developed that are suitable to control the risks associated with competent performance of persons who operate and/or use of depot plant.

A person who is new to the operation and/or use of depot plant shall as a minimum successfully complete the core module regardless of what piece of depot plant they are required to operate or use.

1.3. Assessment Strategy

The strategy to be applied by employer to assessment should take account of a number of factors:

- whether or not the person is new to the job role.
- what training and experience the person has had.
- what different types of depot plant the person is required to work with.
- the practicality of gathering observed evidence; and
- the risks from incompetent performance.

1.4. Risk Ranking Overview

The risk ranking in NR/L3/CTM/306 Skills Assessment Scheme shall be used by employer when managing the competence of any person operating depot plant.

Note: see NR/L3/CTM/306 : Figure 1 and regimes in Table A1 - Overview of Skills Assessment Scheme regimes

1.5. Behavioural Framework

The Plant Competence Behavioural Framework contains behavioural indicators which can be incorporated into existing recruitment arrangements such as an interview, or specific assessments can be developed to evaluate these capabilities.

NOTE: *The behavioural framework is contained in D Plant Competence Behavioural Framework document located in the Network Rail Safety Central webpage.*

The behavioural framework can be used to support the assessment of capabilities. In assessing the suitability of persons, consideration should be given to the following capabilities:

- conscientiousness.
- working with others.
- concentration.
- team working.
- planning and decision making
- personal safety.

2 Competence Modules

The following competence modules form the Depot Plant Operation Competence Framework. Each module stipulates the routes to competence, the performance statements, knowledge statements, behaviours and condition, and validity period for each competence and **r**egimes.

DP 18 Safe use of Overhead Gantry crane

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to use Pendant and Remote-Controlled Overhead Gantry Cranes safely and effectively.

2. Scope

This competence unit applies in all circumstances where any individual is required to use Overhead Gantry crane in Network Rail managed depot. The level and extent of responsibility shall include their own safety and that of others who can be affected by their work.
The candidate

- shall refer to others for authorization when required.
- shall work within set procedures and specifications.
- shall be responsible for the implementation of the instructions and for the quality of their work.
- The scope does not include:
  - Cab Operated Gantry Cranes (fixed or mobile)
  - Gantry Cranes that have more than a tandem orientation

3. Competence unit

Individuals must complete PTMP 00 E-Learning course as prerequisite before attending this course.

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and use the Overhead Gantry crane safely. The candidate shall show they can follow recording, reporting and escalation procedures.

Individuals required to operate Overhead Gantry Crane shall have successfully passed a relevant accredited course which is compliant with BS7121.

This competence unit comprises of Element 1: Prepare and operate Overhead Gantry crane for use in the depot.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.
- a test of the knowledge essential for the Overhead Gantry crane. (As indicated in this unit and detailed in applicable documents and procedures)

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe use of Overhead Gantry crane.
This should include confirmation that:

- the competence has been used on at least six (6) occasions within the previous 12 months; **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment.

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 3 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least six (6) occasions within the previous 12 months (at least once every two months)
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment.
- the knowledge essential for the safe use of Overhead Gantry crane has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of Overhead Gantry crane safely and correctly and in line with the performance statements.

5. Results

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer’s company assurance procedures.

DP18: Safe use of Overhead Gantry crane	
Element 1: Prepare and operate Overhead Gantry crane for use	
Performance statements Candidates shall be able to: a) Demonstrate working safely at all times, complying with health and safety, PUWER and LOLER requirements and other relevant regulations and guidelines including correct use of PPE and other NR procedures. b) Demonstrate setting up the Overhead Gantry crane and confirm it is safely set up and ready for use. c) Confirm that suitable arrangements are in place to maintain the safety of yourself and others who may be affected by the work, including but not limited to; • Hoist operation • Long and cross (traversing) travel (directional configuration), • Emergency stop and isolation procedures. • Setup of exclusion zones d) Locate and identify the major components of the machine and explain their functions. e) Conduct all pre-operational and running checks in accordance with manufacturers and legislative requirements. f) Demonstrate the correct signaling procedures. g) Operate the Overhead Gantry crane within the defined parameters. h) Operate the controls safely and correctly in line with operational procedures. i) Attach the appropriate lifting accessories to the load using approved methods. j) Confirm the load is balanced and secure before moving. k) Demonstrate positioning and disconnecting the load safely. l) Resolve problems within their control and report issues that cannot be resolved. m) Demonstrate shutting down the equipment to a safe condition on conclusion of the activities. n) Demonstrate correct recording, reporting and escalation procedures.	**Knowledge statements** Candidates shall have knowledge and understanding of: 1. What relevant procedures and documents are needed for using the machine. 2. What equipment care and control procedures apply to Overhead Gantry crane system? 3. How to determine whether an Overhead Gantry crane can deliver the required output. 4. What risks are associated with the operation of Overhead Gantry crane and how this can affect the safety of yourself and others? 5. How to complete the necessary checks and what action to take if a problem occurs. 6. What safety precautions need to be taken? 7. How to calculate load estimation 8. What different types of lifting equipment and accessories are used 9. How to sling loads and the relevant Signaling used during the process. 10. How to operate the Overhead Gantry crane 11. Who to communicate with, and at what stage. 12. What the limits of their authority are and who to escalate to when these limits are exceeded. 13. How to interpret and use the manufacturers handbook for the machine being utilized

Scope of competence	**Performance evidence**
1. Operations to be carried out within the limitations of the lifting and moving the load. 2. Operations to be performed include: • Identifying a balanced, unbalanced, symmetrical and asymmetrical load. • Raising the load • Lowering the load • Travelling, including moving along and across (traversing) • Slinging and Signaling requirements 3. Competence to be used during the day or night depending on shifts. 4. Competence to be used as part of daily operations.	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • Observation • Authenticated work experience evidence. • Performance reports • Relevant activity records • Assessment results, theory and practical

DP 19: Safe Use of Konecranes *CXT Series* hoists [Eastleigh LWRD]

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to, safely and effectively, use the Konecranes CXT Series Hoists at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The equipment at Eastleigh is bespoke and consists of 12 bridges/girders, each bridge contains 2 CXT Series Hoists (24 in total) which travel along the length of the bridge. The bridges are supported at either end on 250m long structures. The equipment has unique elements not covered by *DP18: Safe use of overhead gantry crane*. The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work. The candidate

- shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Route to Competence

Individuals shall hold DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

Individuals required to operate Konecranes CXT Series hoists shall have relevant training for safe use of Overhead Gantry Crane which is compliant with BS 7121: Code of Practice for Safe Use of Cranes

Individuals required to operate the Konecranes CXT Series Hoists shall have successfully passed the relevant OEM training course for the safe use of Konecranes CXT Series hoists. This competence unit comprises of one element:

Element 1: Prepare and operate Konecranes CXT Series Hoists & Control System

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Konecranes CXT Series hoists.

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Konecranes CXT series hoist. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Konecranes CXT Series hoists. This should include confirmation that:

- the competence has been used on at least one occasion within the previous 1 month **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 2 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least six (6) occasions within the previous 12 months (at least once every 2 months)
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe use of Konecranes CXT Series hoists has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Konecranes CXT Series hoists and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

DP 19: Safe Use of Konecranes *CXT Series* hoists [Eastleigh LWRD]	
Element 1: Prepare and operate Konecranes CXT Series Hoists & Control System	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) Demonstrate working safely at all times, including abiding by relevant NR processes, complying with health and safety or other relevant regulations (including HSE, POWER, LOLER and relevant NR standards) b) Examine the Kone hoist equipment to ensure it is set up correctly and ready for use c) Demonstrate the pre-use checks and fault checks. d) Assess whether suitable arrangements are in place to maintain the safety of themselves and others who may be affected by the work, including the use of morning briefs and ensuring a safe system of work is in place e) Confirm whether a lift plan is in place f) Demonstrate operating the Kone hoist equipment within the defined parameters, using the correct equipment g) Demonstrate operating the controls safely and correctly in line with operational procedures as specified in the operator's manual. h) Demonstrate use of emergency stop button i) Demonstrate attaching the appropriate handling equipment to the load using approved methods to	Candidates shall have knowledge and understanding of: 1) How to determine whether a Kone hoist equipment can deliver the required output (i.e., that it is the right equipment for the job) 2) What equipment preparation methods and procedures apply. In particular, there are two different methods: - Lifting rail - Lifting a lifting beam (used to lift the dunnage) 3) What controller colours to use as part of the relevant procedures 4) What is being lifted (e.g., 108 – 216 meters of rail) and the different configurations needed for each lift requirement 5) What is meant by balanced, unbalanced, symmetrical and asymmetrical loads 6) What the equipment is and its key parts to support documentation write up 7) What the correct pre use checks are 8) Who to communicate with, and at what stage when undertaking preparation checks 9) What happens when the emergency stop button is used 10) What equipment care and control procedures apply to Kone hoist equipment

eliminate slippage, i.e. ELEBIA clamps, lifting beam, shackles and chains on the lifting frame. j) Assess whether the load is balanced and secure before moving k) Demonstrate positioning and releasing the load safely l) Identify and correct problems within their control and remit promptly and effectively m) Escalating issues that cannot or should not be resolved by themselves to the appropriate person n) Demonstrate shutting down the equipment to a safe condition on conclusion of the activities. o) Demonstrate correct recording, reporting and escalation procedures p) Demonstrate a safety mindset by watching the load at all times and communicating with colleagues as necessary to prevent collision	11) What risks are associated with the operation of Kone hoist equipment and how this can affect the safety of others. 12) What safety precautions need to be taken to minimize any risks of using the machinery 13) How to complete the necessary checks and what action to take if a problem occurs 14) How to rectify unbalanced loads 15) How to operate the Kone hoist equipment 16) What the limits of the operator's authority are and who to escalate to when these limits are exceeded 17) Know the safe system of work 18) Know of relevant standards to unload rail as per ELWRD W10 and ELWRD 11 and 19 for stacking and loading rail vehicle.
Scope of competence	**Performance evidence**
• Overview of CXT Series WRH & Specific detail on the Network Rail Eastleigh LWRD depot lifting system • Operations to be carried out within the limitations of the lifting and moving the load • Main Functions & lifting process for plant operations • Overview of operator assistance, automation, and additional functions • Control system overview and interface (relevant to operators) • Pre-use checks and safe operation protocols • Introduction to the overhead crane/hoist • Pre-operational checks of the crane/hoist • Control familiarization (how to turn the machine on and off, hoist & safety process/functions) • Operating Modes a. Radio Control – Manual Operation b. Semi-automatic target positioning • The function of the system and automation a. Sway control b. Semi-automatic target positioning for trolley & hoist c. Position synchro for trolleys d. Levelling function for trolley and hoist positions • Safely attaching, lifting rail sections, travelling and unloading • Parking the crane/hoist and storing accessories/controls correctly • Able to use slow and fast controls for across and up and down • To be used while complying with relevant standards, procedures and legislation • Machinery should not be operated if there are hazards as specified in the safe system of work plan	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • Observation • Authenticated work experience evidence • Performance reports • Assessment results • Relevant activity records

DP 21: Safe Use of Flash butt welder machine [SCHLATTER]

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to, safely and effectively, use the Flash butt welder machine [SCHLATTER] at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.

The candidate

- Shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Competence unit

Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Flash butt welder [SCHLATTER]. The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

This competence unit comprises of two elements

Element 1: Theory – Flash butt welder [SCHLATTER] & Control System
Element 2: Practical - safely and effectively operate the Flash butt welder machine [SCHLATTER]

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Flash butt welder machine [SCHLATTER]. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of the Flash butt welder (SCHLATTER). This should include confirmation that:

- the competence has been used on at least one occasion within the previous 1 month **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 3 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least six (6) occasions within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe use of the Flash butt welder (SCHLATTER) has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Flash butt welder machine [SCHLATTER] and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

<table>
<tr><th colspan="2">DP 21: Safe Use of Flash butt welder machine [SCHLATTER]</th></tr>
<tr><th colspan="2">Element 1: Preparation – Flash butt welder machine [SCHLATTER] & Control System</th></tr>
<tr><th>Performance statements</th><th>Knowledge statements</th></tr>
<tr><td>Candidates shall be able to:
a) work safely at all times, complying with health and safety and other relevant regulations and guidelines including appropriate PPE
b) confirm that the Flash butt welder machine [SCHLATTER] is set up and ready for use in accordance with the OEM's operating instructions
c) confirm that suitable arrangements are in place to maintain the safety of others who may be affected by the work. For example, as specified in the relevant WARAs
d) deal promptly and effectively with problems within their control and report issues that cannot be resolved during pre-use checks and preparations
e) follow recording, reporting and escalation procedures</td><td>Candidates shall have knowledge and understanding of:
1) what equipment preparation methods and procedures apply, including safety precautions
2) what equipment care and control procedures apply to Flash butt welder machine [SCHLATTER], including pre-use and pre-operational checks.
3) What action needs to be taken if a fault is found during the pre-use and pre-operational checks
4) who to communicate with, and at what stage when undertaking preparation checks
5) how to determine whether the Flash butt welder machine [SCHLATTER] can deliver the required output
6) what risks are associated with the operation of Flash butt welder machine [SCHLATTER] and how this can affect the safety of others, including but not limited to interlocking and safeguarding, or interfacing with other machines used as part of the wider rail production process
7) What additional training and/or competences are needed for safely using the Flash butt welder machine [SCHLATTER]. For example, training on the use of the conveyor
8) what the limits of their authority are and who to escalate to when these limits are exceeded</td></tr>
<tr><th>Scope of competence</th><th>Performance evidence</th></tr>
</table>

• Overview of Flash butt welder machine [SCHLATTER] • Control system overview and interface (relevant to operators) • Daily and pre-use checks and safe operation protocols. • Control familiarization (including isolation of the Flash butt welder machine [SCHLATTER] & safety process/functions) • Analysis of the output of the machine data	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • observation • authenticated work experience evidence • performance reports (e.g. NCR reports) • relevant activity records Practical assessment

Element 2: Safely and effectively operate the Flash butt welder machine [SCHLATTER]	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) work safely at all times, complying with health and safety and other relevant regulations and guidelines including appropriate PPE b) confirm that the Flash butt welder machine [SCHLATTER] is set up and ready for use c) confirm that suitable arrangements are in place to maintain the safety of others who may be affected by the work. For example, as specified in the relevant WARAs d) operate the Flash butt welder machine [SCHLATTER] within the defined parameters, in accordance with the OEM's instructions e) shut down the equipment to a safe condition on conclusion of the activities f) follow recording, reporting and escalation procedures g) Monitor CCTV from the weld house control desk to observe operation and rail movements on the conveyor system h) Manually inspecting the weld to ensure compliance with the relevant standards, including alignment with one-meter straight edge	Candidates shall have knowledge and understanding of: 1) what equipment care and control procedures apply to Flash butt welder machine [SCHLATTER]. 2) Knowledge of the relevant standards, for example NR/L2/TRK/111 3) what risks are associated with the operation of Flash butt welder machine [SCHLATTER] and how this can affect the safety of others, including but not limited to interlocking and safeguarding, or interfacing with other machines used as part of the wider rail production process 4) how to operate the Flash butt welder machine [SCHLATTER] 5) how to monitor and analyze whether Flash butt welder machine [SCHLATTER] is operating correctly 6) who to communicate with, and at what stage when operating the machinery 7) what the limits of their authority are and who to escalate to when these limits are exceeded.
Scope of competence	**Performance evidence**

• Operating rail movement from the control desk
• The function of the system and automation from the welder
  ○ Selecting the correct program
  ○ Operating movement of rail via control panel on Flash Butt welder ready for welder process
  ○ Aligning rail ends and adjusting if necessary
  ○ Cleaning rails and top and bottom electrodes
  ○ Clamping rails on both sides
  ○ Aligning rails and making final adjustments to the arms
  ○ Welder rail using Flash Butt Welder
  ○ Monitoring the output screen on the weld analyzer
  ○ Upsetting Removal
  ○ Removing weld upset (four pieces)
• Manual inspection of the weld, including alignment with one-meter straight edge
• Cleaning & grinding of excess weld material
• Shutting down the equipment to a safe condition and start location on conclusion of the activities
• Analyzing of the output of the machine data
	Performance evidence shall be collected of the candidate completing performance statements using methodology below.
	• observation
	• authenticated work experience evidence
	• performance reports (e.g. NCR reports)
	Weld bend test report
	• relevant activity records
	Practical assessment

DP 22: Safe Use of Press Machine [GEISMAR]

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to, safely and effectively, use the Press machine [GEISMAR] at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.

The candidate

- Shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Competence unit

Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

Individuals required to operate the Press machine [GEISMAR] shall have successfully passed a relevant training course for the safe use of Press machine [GEISMAR].

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Press machine [GEISMAR].

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

This competence unit comprises of one element

Element 1: Safe use of the Press machine

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Press machine [GEISMAR]. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Press machine [GEISMAR]. This should include confirmation that:

- the competence has been used on at least 3 days/full shift within the previous 12 month **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 5 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least three (3) days/full shift within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe Use of Press machine [GEISMAR] has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Press machine [GEISMAR] and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

Element 1: Safe use of the Press machine	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) Work safely at all times, complying with health and safety regulations and guidelines (including PUWER and LOLER), relevant NR standards such as ELWRD W11 and specifications for PPE as outlined in WARA W16. b) Demonstrate the required pre-use checks for using Geismar press c) Demonstrate setting up the machinery correctly d) Operate the correct equipment safely and within the scope of competence e) Move the rail into the correct position for measuring and pressing f) Analyze the data from the measurements g) Operate the press in line with data from the measurements h) Demonstrate pressing the emergency Stop and resetting the machine i) Demonstrate leaving the machinery in a safe position/safe state after use j) Escalate issues as appropriate to the relevant person k) Complete relevant documentation for faults and performance	Candidates shall have knowledge and understanding of: 1) What equipment preparation methods and procedures apply 2) How to determine if this piece of equipment is within scope of use, i.e. if Geismar press is the correct equipment to use for the desired activity. 3) What the risks of using the machinery are as specified in WARA (WARA W16 Press and Grinding operations including rail movements) or the method statement 4) What the safety precautions are to minimize risk of using the machinery as outlined in WARA W16, including: - Ensuring the area is free of any other individuals - Working within a controlled area only accessible by authorized personnel - Maintaining an exclusion zone - Communicate with depot manager/supervisor regarding other activities on site 5) What the pre-use checks are for using the Geismar press 6) Why the pre-use checks are important and the implications of doing them wrong 7) How to set up the machinery correctly 8) How to grease the machinery properly before starting 9) How to differentiate between rail types 10) How to correctly set up the machinery by selecting the correct rail type 11) Calibrate the press correctly 12) How to measure the rail

	13) How to bring the rail safely into the machine in lines with relevant procedures 14) How to leave the machinery in a safe position/safe state after use 15) What the limits of the operator's authority are 16) Who to escalate issues to if they are outside the operator's authority 17) What the complete process for pressing rail is as specified in the operator's manual SOPs 18) What the correct recording process is in accordance with WARA 19) What tolerances the rail can meet and adjust the set-up of the machine to meet this 20) How to identify faults, their causes and correct them in line with operator's scope, escalate if outside of operator's scope 21) What the emergency Stops are, when to use them and what would happen if triggered, including global emergency Stop. 22) How to reset machine after an emergency Stop is triggered 23) What interlocking is and where it is located on the machine 24) What the relevant documents are for working with this machinery and where to find them
Scope of competence	**Performance evidence**
Operations to be carried out within the limitations of: - Full operating procedure for press including pre use checks and leaving the machinery in a safe state post use - During production welds when rail needs to be put through press - Automated processes including measurement of the rail - Manual pressing by the operator - Conducted during daytime hours	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • observation • authenticated work experience evidence • Assessments - Rail meets operational tolerances on completion of pressing - Correct identification of faults (staged or real) and correction or escalation as appropriate. Resetting the machine correctly. - Passing knowledge assessment

DP 23: Safe Use of Grinder Machine [GEISMAR]

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to, safely and effectively, use the Grinder machine [GEISMAR] at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.
The candidate

- Shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Route to Competence

Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

Individuals required to operate the Grinder machine [GEISMAR] shall have successfully passed a relevant training course for the safe use of Grinder machine [GEISMAR].

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Grinder machine [GEISMAR].

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Grinder machine [GEISMAR]. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Grinder machine [GEISMAR]. This should include confirmation that:

- the competence has been used on at least 3 days/full shift within the previous 12 months **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 5 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least 3 days/full shift within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe Use of Grinder machine [GEISMAR] has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Grinder machine [GEISMAR] and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

Element 1: Safe use of the Grinder machine	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) Work safely at all times, complying with health and safety and other relevant regulations and guidelines including PPE (including ear defenders and comms as outlined in WARA W16, flame retardant PPE), PUWER, LOLER, work in line with the welding standards b) Demonstrate using the correct equipment within the scope of work c) Move the rail into the correct position for grinding d) Analyze the data from the press measurements and operate the grinder in line with the data e) Visually inspect output as part of quality assurance f) Empty the dust collection bin and spark arrester bins g) identify and rectify faults, or escalate when beyond scope of operator	Candidates shall have knowledge and understanding of: 1) Whether this piece of equipment is within scope of use, i.e. if it's the correct equipment to use for this activity. 2) What equipment preparation methods and procedures apply 3) What the pre-use checks are for Geismar grinder 4) How to differentiate between rail types and manually select the correct type/appropriate settings on the grinder 5) How to select the correct rail type 6) How to determine which part of the rail needs to be ground in the set up. 7) What the different zones of the rail are 8) How to program the machine to take off the correct amount in line with NR's standard for grinding rails and the operator's manual 9) How to identify faults, their causes and correct them in line with the operator's scope, making use of the troubleshooting full diagnostic menu 10) Who to escalate faults and issues to if outside of the operator's scope 11) What the risks are of using the machinery in line with WARA (W16 Grinding operations including rail movements) or method statement 12) What safety precautions need to be taken to minimize risks in line with WARA 16, including: - Ensuring the area is free of any other individuals - Working within a controlled area only accessible by authorized personnel - Maintaining an exclusion zone - Communicate with depot supervisor regarding other activities on site

	13) What the limits and calibration are 14) What tolerances the rail can meet and how to adjust the setup of the machine to meet this. 15) What the emergency Stops are, when to use them and what would happen if they are triggered 16) What interlocking is and where it is located on the machine 17) How to work in compliance for ELWRD W11 procedure for moving rail in and out of weld shed 18) How to prepare the machinery 19) How to grease the machinery 20) How to bring the rail safely into the machine in lines with relevant procedures 21) What the grinding automated process is 22) How to leave the machinery in a safe position/safe state after use 23) How to place the machine in a safe condition the case of a fault 24) What the limits are of the operator's authority 25) Who to escalate issues to outside the limit of the operator's authority. 26) What the complete process is for grinding rail as specified in the operations manual & SOPs 27) What the correct recording process is in accordance with WARA 28) What the relevant documents are, SMS (safety management system), Four methods of work, WARAs, SOPs
Scope of competence	**Performance evidence**
Operations to be carried out within the limitations of: - Full operating procedure for grinder including pre use checks and leaving the machinery in a safe state post use - During production welds, needs to be put through grinder - Automated processes of grinding the rail - Correctly identifying and recording faults, important information and performance - Conducted during daytime hours	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • Observation • Authenticated work experience evidence • Assessments - Rail meets operational tolerances on completion of grinding and measuring - Correct identification of faults (staged or real) and correction or escalation as appropriate. Resetting the machine correctly. • Passing knowledge assessment

DP 24 Safe use of Weld Bend Test machine [MIRAGE]

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to, safely and effectively, use Weld Bend Test machine [MIRAGE] at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.

The candidate

- shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Route to Competence

Individuals shall hold DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

Individuals required to operate Weld Bend Test machine [MIRAGE] shall have successfully passed a relevant training course for the safe use of Weld Bend Test machine [MIRAGE].

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Weld Bend Test machine [MIRAGE].

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Weld Bend Test machine [MIRAGE]. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Weld Bend Test machine [MIRAGE]. This should include confirmation that:

- the competence has been used on at least four occasions within the previous 12 month **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 4 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least four (4) occasions within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe use of Weld Bend Test machine [MIRAGE] has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Weld Bend Test machine [MIRAGE] and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

DP 23: Safe Use of Weld Bend Test machine [MIRAGE]	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) Demonstrate working safely at all times, complying with health and safety and other relevant regulations, SOPS and guidelines, including PPE requirements b) Confirm that the Weld Bend Test machine [MIRAGE] is set up and ready for use, including pre-use checks (for example, machine condition) c) Confirm that suitable arrangements are in place to maintain the safety of others who may be affected by the work (for example, setting up and maintaining exclusion zones) d) Demonstrate safe manipulation and positioning of rail into the Bend Tester prior to use e) Demonstrate operating the Weld Bend Test machine [MIRAGE] in line with operational procedures and within the defined parameters f) Demonstrate dealing promptly and effectively with problems of the machine, and controlling and escalating issues that cannot be resolved to the team leader or manager in line with SOPs g) Demonstrate removing and disposing of the test piece safely h) Demonstrate shutting down the equipment to a safe condition on conclusion of the activities and in line with any faults identified. Clean in preparation for the next test, in line with SOP requirements i) Demonstrate recording, reporting and escalation (if relevant) procedures on completion of test	Candidates shall have knowledge and understanding of: 1) What equipment preparation methods and procedures apply including pre-use checks (e.g., check for valid calibration certificate) 2) Who to communicate with, and at what stage when undertaking preparation checks and utilizing the machine 3) How to determine whether the Weld Bend Test machine [MIRAGE] can deliver the required output 4) What risks are associated with the operation of Weld Bend Test machine [MIRAGE], how this can affect the safety of others and what safety precautions need to be taken 5) What the various visual aids mean and when it's safe to open the machine 6) What the limits of their authority are and who to escalate to if these limits are exceeded 7) How to identify different rail types and set up the Weld Bend Test as appropriate 8) How to safely operate the Weld Bend Test machine [MIRAGE] in line with the operating instructions 9) How to inspect, analyse and record results and minimum bend test requirements, as specified in NR/SP/TRK/111 10) How to dispose safely of the bend test piece
Scope of competence	**Performance evidence**

• Overview of the Weld Bend Test machine [MIRAGE] and Specific detail on the Network Rail Eastleigh LWRD depot process plan. • Control system overview and interface (relevant to operators) • Daily and pre-use checks and safe operation protocols • Control familiarization (including isolation of Weld Bend Test machine [MIRAGE] & safety process/ functions) • Operating Modes (including setup for various rail types) • The function of the system and automation • Practical element: ◦ Identify flash butt weld bend test equipment ◦ Carry out pre-start checks and set up equipment ◦ Operate the equipment safely to undertake a bend test ◦ Dispose of the test piece ◦ Analyze and record results	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • observation • authenticated work experience evidence • performance reports • relevant activity records

DP 25: Safe Use of Band Saw [KASTO MAC380 and Pro Saw]

1. Purpose

The purpose of this competence unit is to define the competence requirements for Network Rail staff required to, safely and effectively, use Band Saw [KASTO MAC380 and Pro Saw] within Network Rail Eastleigh LWRD facility.

2. Scope

The types of power saws include Band Saw [KASTO MAC380 and Pro Saw] at Network Rail Eastleigh LWRD facility

The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.

The candidate

- shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Route to Competence

Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

Individuals required to operate Band Saw [KASTO MAC380 and Pro Saw] shall have successfully passed a relevant training course for the safe use of Band Saw [KASTO MAC380 and Pro Saw].

To prove competence in this unit, the candidate shall demonstrate their ability to safely use Band Saw [KASTO MAC380 and Pro Saw].

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Band Saw [KASTO MAC380 and Pro Saw] as indicated in this unit and detailed in applicable documents and procedures.
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Band Saw [KASTO MAC380 and Pro Saw]. This should include confirmation that:

- the competence has been used on at least one occasion within the previous 1 month **and**

- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 5 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least two (2) occasions within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe use of Power Saw has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Power Saw and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

<table>
<tr><th colspan="2">DP 25: Safe Use of Band Saw [KASTO MAC380 and Pro Saw]</th></tr>
<tr><th>Performance statements</th><th>Knowledge statements</th></tr>
<tr><td>Candidates shall be able to:
a) Work safely at all times, complying with health and safety and other relevant regulations and guidelines including PPE requirements and SOPS
b) Confirm that the Band Saw is set up and ready for use, including pre-use checks
c) Demonstrate a level of Band Saw husbandry levels, including swarf removal, changing saw blades and checking cutting fluid is at the correct level
d) Confirm that suitable arrangements are in place to maintain the safety of others who may be affected by the work
e) Demonstrate safely running the rail over the saw bed, centralizing the rail to the white mark on the saw beds roller attachment and raising the saw bed
f) Demonstrate operating the Band Saw in line with operational procedures and within the defined parameters
g) Inspect and check the quality of cut of both rail ends with an engineer's square
h) Demonstrate safely running the rail out after it has been cut, including the weld sample to the place of extraction
i) Demonstrate dealing promptly and effectively with problems within their control and report issues that cannot be resolved
j) Demonstrate shutting down the equipment to a safe condition on conclusion of the activities
k) Demonstrate following recording, reporting and escalation procedures, effectively challenging unsafe behaviour</td><td>Candidates shall have knowledge and understanding of:
1) What equipment preparation methods and procedures apply including pre-use checks, and what action to take if a problem occurs
2) Who to communicate with, and at what stage when undertaking preparation and operational checks
3) What risks and hazards are associated with the operation of Band Saws and how this can affect safety. For example, PPE to protect eyes and biohazards
4) How to safely do a dip check and being aware of the risk of bacteria in cutting oil fluid entering cuts in open wounds
5) Where to look to identify further risks and hazards, for example risk assessments
6) What safety precautions need to be taken
7) What the limits of their authority are and who to escalate to when these limits are exceeded
8) How to operate the Band Saw, including starting and shutting it down to a safe condition and post-use cleaning</td></tr>
<tr><th>Scope of competence</th><th>Performance evidence</th></tr>
</table>

• Overview of Band Saw operation and specific detail on the Network Rail Eastleigh LWRD depot process plan • Control system overview and interface (relevant to operators) • Daily and pre-use checks and safe operation protocols during standard daytime working hours • Control familiarization including isolation of Band Saw & safety process/ functions • Reviewing and adjusting the Band Saw condition, e.g., replacing the blades, remove the swarf and saw tooth brush	Performance evidence shall be collected of the candidate completing performance statements using methodology below. • observation • authenticated work experience evidence • performance reports

DP 26 Safe use of Rail end Brushing Machine [NENCKI]

1. Purpose

The purpose of this competence unit is to define the competence requirements for Network Rail staff required to, safely and effectively, use Rail end Brushing Machine [NENCKI] at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.
The candidate

- shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Route to Competence

Individuals shall hold the DP 27 Safe use of Conveyor [LWRD] as prerequisite before attending this course.

Individuals required to operate Rail end Brushing Machine [NENCKI] shall have successfully passed a relevant training course for the safe use of Rail end Brushing Machine [NENCKI].

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Rail end Brushing Machine [NENCKI].

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Rail end Brushing Machine [NENCKI]. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Rail end Brushing Machine [NENCKI]. This should include confirmation that:

- the competence has been used on at least one occasion within the previous 1 month **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 5 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least three (3) occasions within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe use of Rail end Brushing Machine [NENCKI] has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Rail end Brushing Machine [NENCKI] and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

DP 26: Safe Use of Rail end Brushing Machine [NENCKI]	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) Demonstrate working safely at all times, complying with health and safety and other relevant regulations and guidelines including PPE requirements b) Confirm that the Rail end Brushing Machine [NENCKI] is set up and ready for use, including pre-use checks c) Demonstrate checking the rail brushes are in good condition and replacing them if and when required throughout the shift (including cleaning any oil deposit off the rails from the brush) d) Confirm that suitable arrangements are in place to maintain the safety of others who may be affected by the work (for example, that the access gates are closed) e) Demonstrate safely loading the rail into the machine and checking that the rail ends are positioned correctly f) Operate the Rail end Brushing Machine [NENCKI] in line with operational procedures and within the defined parameters g) Demonstrate dealing promptly and effectively with problems of the machine, and controlling and escalating issues that cannot be resolved to the team leader or manager in line with Standard Operating Procedures (SOPs) h) Demonstrate safely running rail out of the machine	Candidates shall have knowledge and understanding of: 1) What equipment preparation methods and procedures apply, including pre use checks or SOPs 2) Who to communicate with, and at what stage when undertaking preparation checks 3) How to operate the Rail end Brushing Machine [NENCKI], including cleaning and returning it to a safe state after use for rail movement 4) What risks are associated with the operation of Rail end Brushing Machine [NENCKI] and how this can affect the safety of others (e.g., reversing the rail back into the machine for further cleaning) 5) How to interpret the data on HMI (Human Machine Interface) to identify faults and what action to take if a problem occurs 6) What constitutes an acceptable standard of cleaning 7) What safety precautions need to be taken when changing the rail cleaner brushes (e.g., safe condition of the machine, additional PPE and correct tools) 8) What the limits of their authority are and who to escalate to when these limits are exceeded

i) Demonstrate visually inspecting the rail to investigate whether the rail has been cleaned to a sufficient quality. If it needs further cleaning, communicate with the rail loading operative to ensure it is safe to run back into the machine. j) Demonstrate shutting down the equipment to a safe condition on conclusion of the activities, including cleaning and returning the machine to its start position k) Demonstrate following, recording, reporting and escalation (if relevant) procedures	
Scope of competence	**Performance evidence**
• Introduction to the Rail end Brushing Machine [NENCKI] and specific detail on the Network Rail Eastleigh LWRD depot process plan • Knowledge of control system overview and interface (relevant to operators) • Completion of daily and pre-use checks and safe operation protocols. • Completion of rail alignment in the Rail end Brushing Machine [NENCKI] • Control familiarization including isolation of Rail end Brushing Machine [NENCKI] & safety process/ functions (for example electrical, pneumatic, and interlocking) • Replacing damaged or worn-out brushes and cleaning any oil deposit off the rails from the brush • Quality control and assessment of output	Performance evidence shall be collected of the candidate completing performance statements using methodology below: • observation • authenticated work experience evidence, including physical output • performance reports • assessment results

DP 12: Safe use of Conveyor [LWRD]

1. Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to, safely and effectively, use the Conveyor [LWRD] at the Network Rail Long Weld Rail depot, Eastleigh.

2. Scope

The equipment at Eastleigh is bespoke and consists of Inward Conveyor, outward conveyor and conveyor through the shed
The level and extent of responsibility shall include the candidate's own safety and that of others who can be affected by their work.
The candidate

- shall only operate this equipment when they have been trained and authorised to do so
- shall refer to others for authorization if/when required
- shall work within set procedures and specifications
- shall be responsible for the implementation of the instructions and for the quality of their work.

3. Route to Competence

Individuals shall hold PTMP 00 E-Learning Course as prerequisite before attending this course.

Individuals required to operate the Conveyor [LWRD] shall have successfully passed the relevant OEM training course for the safe use of Conveyor [LWRD].

This competence unit comprises of one element:

Element 1: Prepare and operate Conveyor [LWRD] & Control System

To prove competence in this unit, the candidate shall demonstrate their ability to safely use the Conveyor [LWRD].

The candidate shall show they can follow Network Rail recording, reporting and escalation procedures.

Only employees who satisfy all the assessment criteria will be awarded certification.

4. Competence management

4.1 Initial assessment

Initial assessment decisions shall be made where there is satisfactory evidence of completion of training.

This shall include:

- a test of the knowledge essential for the Conveyor [LWRD]. (As indicated in this unit and detailed in applicable documents and procedures)
- practical demonstrations of performance requirements, carried out in a way that complies with the appropriate procedures.

4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake the Safe Use of Conveyor [LWRD]. This should include confirmation that:

- the competence has been used on at least one occasion within the previous 1 month **and**
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment

Where competence cannot be confirmed, competence shall be dealt with as detailed in *NR/L2/CTM230 clause 4.6 - Suspension or Withdrawal of Competence*

4.3 Competence renewal

Competence shall be renewed at least every 4 years by means of assessment. The assessment shall be used to confirm that:

- the competence has been used on at least four (4) occasions within the previous 12 months
- there have been no incidents, accidents, close calls or near misses as a result of the candidate using the equipment
- the knowledge essential for the Safe use of Conveyor [LWRD] has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the Safe use of Conveyor [LWRD] and in line with the performance statements.

5. Results of Training, assessment and reviews

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/201 Competence Management and in line with the employer's company assurance procedures.

DP 27: Safe Use of Conveyor [LWRD]	
Element 1: Prepare and operate Conveyor [LWRD] & Control System	
Performance statements	**Knowledge statements**
Candidates shall be able to: a) Demonstrate working safely at all times, including abiding by relevant NR processes, complying with health and safety or other relevant regulations, and relevant NR standards b) Confirm if there are any open permits in place for the removal of any guarding c) Examine the conveyor equipment to ensure it is set up correctly and ready for use. For example, that the fortress keys and master keys are inserted in the correct panels and that the guards are engaged d) Demonstrate the pre-use checks and fault checks, including checking the HMI e) Assess whether suitable arrangements are in place to maintain the safety of themselves and others who may be affected by the work, including the use of morning briefs and ensuring a safe system of work is in place f) Demonstrate operating the conveyor system within the defined parameters, using the correct equipment g) Demonstrate operating the controls safely and correctly in line with operational procedures as specified in the operator's manual.	Candidates shall have knowledge and understanding of: 1) What equipment preparation methods and procedures apply 2) What is being conveyed (e.g., 108 – 216 meters of rail) and the different configurations needed for each lift requirement 3) What the equipment is and its key parts to support documentation write up 4) What the correct pre-use checks are 5) Who to communicate with and at what stage when undertaking preparation checks and operating the conveyor 6) Where the eStop is and what happens when it is used 7) What hazards and risks are associated with the operation of the conveyor system and work environment, and how this can affect the safety of others, taking into consideration: a. their possible causes b. potential consequences c. appropriate risk controls 8) What open permits are in place for any removal of guarding, for example in the case of maintenance taking place

h) Demonstrate use of the eStop (emergency stop button) i) Identify and correct problems within their control and remit promptly and effectively j) Escalating issues that cannot or should not be resolved by themselves to the appropriate person k) Demonstrate shutting down the equipment to a safe condition on conclusion of the activities. l) Demonstrate correct recording, reporting and escalation procedures m) Demonstrate key behaviors relevant to the role such as communication, challenging unsafe working, maintaining a safety awareness mindset and demonstrating Network Rail's core values and behaviors.	9) What safety precautions need to be taken to minimize any risks of using the machinery 10) How to complete the necessary checks and what action to take if a problem occurs 11) How to operate the conveyor system 12) What the limits of the operator's authority are and who to escalate to when these limits are exceeded 13) What the safe system of work in place is
Scope of competence	**Performance evidence**
• Overview of Conveyor system & process detail at the Network Rail Eastleigh LWRD depot • Operations to be carried out within the limitations of conveying the load • Main Functions for plant operations • Overview of operator assistance, automation, and additional functions • Control system overview and interface (relevant to operators) • Pre-use checks and safe operation protocols • Introduction to the conveyor system and interlocks, and how to use it • Interaction with other competences or processes that may overlap • Control familiarization (how to turn the machine on and off, hoist & safety process/functions) • Operating Modes • The function of the system and automation • To be used while complying with relevant standards, procedures, and legislation • Machinery should not be operated if there are hazards as specified in the safe system of work plan • Escalation as appropriate when issues and faults are identified	Performance evidence required to demonstrate competence in this unit may include but not be limited to: • Training assessments • Trainer observation • Completion of workplace records or documentation

DEPOT PLANT COMPETENCE FRAMEWORK [version 1.0]

September 7, 2023