

E Units of Competence

E.1 General

Units of competence applicable to the operation and/or use of portable, transportable and/or mobile plant have been developed; based on a functional analysis the following units of competence have been identified as suitable to control the risks associated with competent performance of individuals who operate and/or use portable, transportable and/or mobile plant on Network Rail managed infrastructure.

E.2 Evidence requirements

Sufficient evidence shall be collected to enable competence to be assessed against all the performance statements and knowledge and understanding requirements for each element. Evidence shall be sufficient to demonstrate that the individual is capable of consistent competent performance.

E.3 Performance evidence

The units of competence in this appendix specify the form and quantity of performance evidence which shall be presented for each element.

There are two types of performance evidence:

- evidence of the way the individual carried out activities; evidence of the process involved in demonstrating competence. This takes the form of observation, authenticated log book entries, or performance reports.
- products of the individual's work; items that the individual produces or works on or documents produced as part of the activity. This evidence can be in the form of the product itself, or can be records or photographs generated as part of the work.

E.4 Knowledge evidence.

The knowledge evidence section of the element specifies the knowledge and understanding necessary for competent performance.

E.4.1 Knowledge requirements that are common to all units of competence

Candidates shall have knowledge and understanding of:

Health and safety legislation, regulations and safe working practices and procedures that shall include the relevant sections of:

- COSHH;
- current rule book;
- Electricity at Work Regulations;
- LOLER (Lifting Operations and Lifting Equipment Regulations);
- PUWER (Provision and Use of Work Equipment Regulations);
- Railway & Other Guided Transport Systems Safety Regulations (ROGS);

- the Health and Safety at Work Act;
- Transport and Works Act (Alcohol and drugs);
- relevant Network Rail plant operation manual;
- Working at Height.

E.5 Assessment decisions.

Assessment decisions of “competent” shall only be made when:

- all the required performance and knowledge evidence, as defined in the unit of competence has been provided;
- the evidence has been confirmed as accurate, current and attributable to the individual concerned;
- equipment endorsements can be added to a competence certificate following successful completion of the relevant training or briefing.

E.6 Competence Index

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E.7 PTMP01: Safe use of generator equipment

E.7.1 Purpose

The purpose of this competence unit is to define the competence requirements for candidates required to prepare and use generators safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.7.2 Scope

This competence unit applies in all circumstances where any individual is required to use generators on Network Rail managed infrastructure or on Network Rail owned or leased property.

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 be expected to refer to others for authorisation when required, shall be responsible for the implementation of the instructions and shall work within set procedures and specifications. The candidate is responsible for the quality of their work.

The scope of this unit includes examples of generators as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment,

The scope of this unit does not include:

- 650V signalling supply generators; **or**
- 240V generators

E.7.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate generators. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises one element:

Element 1: Prepare and operate generators for use on the infrastructure

E.7.4 Initial assessment, maintenance of competence and competence renewal

E.7.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for generators. (As indicated in this unit and detailed in applicable documents and procedures).

E.7.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of generator equipment activities.

This should include confirmation that:

- the competence has been used on at least two (2) 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 **4.10**.

E.7.4.3 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 generators has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of generators safely and correctly and in line with the performance statements.

E.7.5 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 employers company assurance procedures.

PTMP01: Safe use of generator equipment

Element 1: Prepare and operate generators for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to equipment in line with work requirements;
- e. protect themselves and others from risks that may arise when preparing the generator for use;
- f. start the generator using appropriate method;
- g. shut down the generator to a safe condition on conclusion of the activities;
- h. deal promptly and effectively with problems within their control and report those that cannot be solved;
- i. communicate effectively with relevant parties in line with requirements;
- j. follow recording reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. what equipment care and control procedures apply to generators;
3. how to determine whether a generator is capable of delivering the required output;
4. what risks are associated with the preparation of generators and how this can affect the safety of 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 when fuelling;
7. how to operate the generator;
8. who to communicate with, and at what stage when undertaking preparation check;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices.
2. The equipment safety and preparation checks that are required shall be conducted by:
 - visual checks;
 - safety device tests.
3. They shall be concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - cables plugs and sockets;

Performance evidence

Performance evidence shall be collected of the candidate completing performance statements c, d, e, f, g using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.8 PTMP02: Safe use of drilling equipment

E.8.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use drilling equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.8.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use drilling equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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 be expected to refer to others for authorisation when required, shall be responsible for the implementation of the instructions and shall work within set procedures and specifications. The candidate is responsible for the quality of their work.

The scope of this unit includes examples of drilling equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.8.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate drills. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements;

Element 1: Prepare drills for use on the infrastructure.

Element 2: Operate drills safely and effectively to achieve the required engineering outcome.

E.8.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of drills by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.8.5 Initial assessment, maintenance of competence and competence renewal

E.8.5.1 Initial assessment.

Where there is no mentoring requirement, 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 which complies with the appropriate procedures;

- a test of the knowledge essential for the appropriate drilling equipment. (As indicated in this unit and detailed in applicable documents and procedures).

Where mentoring is required, initial assessment decisions shall be made where there is satisfactory evidence of completion of training and mentoring and shall be gathered from the candidate undertaking the activities in the work place

This shall include a competence assessment within 4 months of initial training to confirm that;

- the performance requirements of this unit have been met; **and**
- the candidate has the knowledge as defined in the table below.

Where competence cannot be confirmed competence shall be dealt with as detailed in **4.10**.

E.8.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake safe use of drilling equipment activities.

This should include confirmation that:

- the competence has been used on sufficient number of occasions (on at least two (2) occasions for wood sleeper drills and magnetic mounted drills, three (3) occasions for rail drills and at least one (1) occasion for all other drills within scope) 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 **4.10**.

E.8.5.3 Competence renewal

E.8.5.3.1 Wood sleeper drills and magnetic mounted drills

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 wood sleeper drills and/or magnetic mounted drill as applicable has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**

- the candidate continues to demonstrate the use of wood sleeper drills and magnetic mounted drills as applicable safely and correctly in line with the performance statements.

E.8.5.3.2 Rail Drills

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 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 drills has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of rail drills safely and correctly in line with the performance statements.

E.8.5.3.3 All other drills with scope

Competence for all other drills within scope does not expire.

E.8.6 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 employers company assurance procedures.

PTMP02 Safe use of drilling equipment

Element 1: Prepare drills for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to equipment in line with work requirements;
- e. protect themselves and others from risks that may arise when preparing the drill for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be solved;
- g. communicate effectively with all relevant parties and in line with procedures;
- h. follow recording, reporting and escalation procedures.

Scope of competence

- 1. Preparation and checks include:
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices.
- 2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - safety device test.
- 3. They shall be concerned with establishing:
 - environmental acceptability
 - quarantine requirements
 - fuel and lubricant levels
 - certification validity
 - suitability of power source:
 - a. cables plugs
 - b. sockets
 - c. generators
 - d. battery
 - e. engine powered
 - wear and defects
 - suitability for task
 - suitability of associated equipment:
 - a. templates
 - b. drill bits/broach
 - c. clamps
 - d. specialist maintenance tools
 - e. cables, plugs and sockets

Knowledge statements

Candidates shall have knowledge and understanding of:

- 1. what equipment preparation methods and procedures apply;
- 2. what equipment care and control procedures apply to drills;
- 3. how to determine whether a drill is suitable for the task required;
- 4. what risks are associated with the preparation of drills and how this can affect the safety of 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 when fuelling or connecting to a electrical power source;
- 7. who to communicate with and at what stage when undertaking preparation checks;
- 8. what the limits of their authority are and who to escalate to when these limits are exceeded..

Performance Evidence

Performance evidence shall be collected of the candidate completing performance statements c, d, e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP02 Safe use of drilling equipment

Element 2: Operate drills safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the drill is set up and ready for use;
- c. operate the drill within the defined parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. produce finished work to the required quality and within the specified dimensional accuracy;
- f. carry out quality checks at suitable intervals;
- g. deal promptly and effectively with problems within their control and report those that cannot be solved;
- h. shut down the equipment to a safe condition on conclusion of the activities;
- i. dispose of waste materials in accordance with company guidelines;
- j. follow recording, reporting and escalation procedures.

Scope of Competence

1. Operations to be carried out on:
 - rails;
 - sleepers;
 - other applicable on network rail assets.
2. Operations to be performed include:
 - drilling;
 - cold bolt hole expansion.
3. Quality checks to be completed include:
 - size;
 - shape;
 - position;
 - depth.
4. Materials to be drilled include:
 - various steel;
 - timber;
 - concrete.
5. Additional PPE can include;
 - gloves;
 - goggles;
 - ear defenders;
 - masks.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications relate to drilling of rails, sleepers and other relevant materials;
2. which drill bits to use for various applications;
3. what setting methods and techniques are applied;
4. tools and equipment operating and care procedures as defined by Network Rail or manufacturer;
5. drilling characteristics of different materials including various steel, timber and concrete;
6. quality control procedures and recognition of machining defects when drilling and/or cold expanding of bolt holes;
7. the likely impact of your work others and the impact of their work for you;
8. who to communicate with, and at what stage when undertaking preparation check;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f and h using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records,

E.9 PTMP03 Safe use of cutting and grinding equipment

E.9.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use cutting and grinding equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.9.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use cutting and grinding equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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 be expected to refer to others for authorisation when required, shall be responsible for the implementation of the instructions and shall work within set procedures and specifications. The candidate is responsible for the quality of their work.

The scope of this unit includes examples of cutting and grinding equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.9.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate cutting and grinding equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements:

Element 1: Prepare cutting and grinding equipment for use on the infrastructure.

Element 2: Operate cutting and grinding equipment safely and effectively achieve the required engineering outcome.

E.9.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of cutting and grinding equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.9.5 Initial assessment, maintenance of competence and competence renewal

E.9.5.1 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 which complies with the appropriate procedures.

- a test of the knowledge essential for the appropriate cutting and grinding equipment. (As indicated in this unit and detailed in applicable documents and procedures)

E.9.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of cutting and grinding equipment activities.

This review shall confirm that:

- the competence has been used on sufficient number of occasions (on at least one (1) occasion for weld trimmers and at least four (4) occasions for all other cutting and grinding equipment within scope) 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 **4.10**.

E.9.5.3 Competence renewal

E.9.5.3.1 Weld trimmers

Competence for all types of weld trimmers within scope does not expire.

E.9.5.3.2 Plain Line Grinders

Competence shall be renewed at least every 4 years by means of training.

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 plain line grinders has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of plain line grinders safely and correctly in line with the performance statements.

E.9.5.3.3 All other cutting and grinding equipment within scope

Competence shall be renewed at least every 3 years by means of training.

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 cutting and grinding equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of cutting and grinding equipment safely and correctly in line with the performance statements.

E.9.6 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 employers company procedures.

PTMP03 Safe use of cutting and grinding equipment

Element 1: Prepare cutting and grinding equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- d. protect themselves and others from risks that arise when preparing the cutting and/or grinding equipment for use;
- e. deal promptly and effectively with problems within their control and report those that cannot be solved;
- f. dispose of waste materials in accordance with company guidelines;
- g. communicate effectively with all relevant parties and in line with procedures;
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type of disc/blade/stone is required for the particular equipment type;
3. how to confirm that the disc/blade/stone is correctly fitted to the equipment;
4. what equipment care and control procedures apply to cutting and grinding equipment;
5. how to determine whether cutting and grinding equipment is suitable for the task required;
6. what risks associated with the preparation of cutting and/or grinding equipment and how this can affect the safety of others;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to a electrical power source;
9. who to communicate with, and at what stage when undertaking preparation checks;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:

<ul style="list-style-type: none"> • correct fitting of discs/blades/stones; • position of equipment; • service date; 	<ul style="list-style-type: none"> • checking for damage; • fluid levels; • safety devices.
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2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test;
3. They shall be concerned with establishing:

<ul style="list-style-type: none"> • Certification validity; • wear and defects; • suitability for task; • environmental acceptability; • suitability of associated equipment; <ol style="list-style-type: none"> a. clamps; b. discs and stones; c. guards; d. specialist maintenance tools. 	<ul style="list-style-type: none"> • quarantine requirements; • fuel and lubricant levels; • Security of components; • suitability of power source; <ol style="list-style-type: none"> a. cables plugs and sockets; b. generators; c. battery; d. engine powered;
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Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, and d, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP03 Safe use of cutting, and grinding equipment

Element 2: Operate cutting and grinding equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the cutting and/or grinding equipment is set up and ready for use;
- c. confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work;
- d. operate the cutting and/or grinding equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. produce finished work to the required quality and within the specified dimensional accuracy;
- g. carry out quality checks at suitable intervals;
- h. deal promptly and effectively with problems within their control and report those that cannot be solved;
- i. shut down the equipment to a safe condition on conclusion of the activities;
- j. dispose of waste materials in accordance with company guidelines;
- k. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications, documentation and risk control sheets relate to cutting, and/or grinding equipment, of rails, sleepers and other relevant materials;
2. which discs/blade/stones to use for various applications;
3. what appropriate fitting methods and techniques are applied;
4. what equipment (and associated consumables) operating and care procedures as defined by Network Rail or manufacturer;
5. how to determine what limitations apply to reduce Hand Arm Vibration risks;
6. quality control procedures and recognition of machining defects when cutting, grinding and/or shearing
7. how to limit the impact of your work on the safety of others and assets;
8. what precautions need to be taken to mitigate against the risk of fires.
9. who to communicate with and at what stage when undertaking the activity;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations shall be carried out on:

<ul style="list-style-type: none"> • rails; • switches and crossings; 	<ul style="list-style-type: none"> • sleepers; • other applicable materials on network rail assets.
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2. Operations to be performed include:
 - cutting;
 - grinding;
 - shearing.
3. Quality checks to be completed can include:

<ul style="list-style-type: none"> • size; • profile; 	<ul style="list-style-type: none"> • position; • depth.
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4. Materials to be cut or ground can include:

<ul style="list-style-type: none"> • various steels; • timber; 	<ul style="list-style-type: none"> • concrete; • any other materials on Network Rail assets.
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5. Additional PPE can include:

<ul style="list-style-type: none"> • flame retardant PPE; • gloves; • goggles; 	<ul style="list-style-type: none"> • ear defenders; • masks.
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Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, i and j using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.10 PTMP04 Safe use of tightening and fastening equipment

E.10.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use tightening and/or fastening equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.10.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use tightening and/or fastening equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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 be expected to refer to others for authorisation when required, shall be responsible for the implementation of the instructions and shall work within set procedures and specifications. The candidate is responsible for the quality of their work.

The scope of this unit includes examples of tightening and fastening equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.10.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate tightening and fastening equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements:

- Element 1: Prepare tightening and fastening equipment for use on the infrastructure.
- Element 2: Operate tightening and fastening equipment safely and effectively and effectively achieve the required engineering outcome.

E.10.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of tightening and/or fastening equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.10.5 Initial assessment, maintenance of competence and competence renewal

E.10.5.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for the appropriate tightening and fastening equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.10.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake safe use of tightening and fastening equipment activities.

This should include confirmation that:

- the competence has been used on sufficient number of occasions (on at least one (1) occasion for hydraulic spike extractors, and at least two (2) occasions for all other tightening and fastening equipment within scope) 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 **4.10**.

E.10.5.3 Competence renewal

E.10.5.3.1 Hydraulic Spike Extractors

Competence for all types of hydraulic spike extractors within scope does not expire.

E.10.5.3.2 Huck Bolt Fastener

Competence shall be renewed at least every 5 years by means of training.

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 huck bolt fastener equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of huck bolt fastener equipment safely and correctly in line with the performance statements.

E.10.5.3.3 All other tightening and fastening equipment within scope

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 tightening and fastening equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the tightening and fastening equipment safely and correctly and in line with the performance statements.

E.10.6 Results

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/001 Competence Management Systems process and in line with the employers company procedures.

PTMP04 Safe use of tightening and fastening equipment

Element 1: Prepare tightening and fastening equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- d. protect themselves and others from risks that arise when preparing the tightening and/or fastening equipment for use;
- e. deal promptly and effectively with problems within their control and report those that cannot be solved;
- f. communicate effectively with all relevant parties and in line with procedures
- g. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type of socket and/or associated equipment is required for the particular equipment type;
3. how to confirm that the socket and/or associated equipment is correctly fitted to the equipment;
4. what equipment care and control procedures apply to tightening, and/or fastening equipment;
5. how to determine whether tightening, and/or fastening equipment is suitable for the task required;
6. what risks are associated with the preparation of tightening, and/or fastening and how this can affect the safety of others;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to electrical, pneumatic, or hydraulic power sources;
9. who to communicate with and at what stage when undertaking preparation checks;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - correct fitting of sockets;
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test.
3. They shall be concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of Power source;
 - a. cables plugs and sockets;
 - b. generators;
 - c. battery;
 - d. engine powered.
 - suitability of associated equipment inc:
 - a. sockets and fittings;
 - b. extension kits;
 - c. quick release adaptors;
 - d. universal joints.

Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, and d, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP04 Safe use of tightening and fastening equipment

Element 2: Operate tightening and fastening equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the tightening and/or fastening equipment 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;
- d. operate the tightening and/or fastening equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. produce finished work to the required quality and within the specified dimensional accuracy;
- g. carry out quality checks at suitable intervals;
- h. deal promptly and effectively with problems within their control and report those that cannot be solved;
- i. shut down the equipment to a safe condition on conclusion of the activities;
- j. dispose of waste materials in accordance with company guidelines;
- k. follow recording, reporting and escalation procedures.

Scope of competence

- 1. Operations shall be carried out on:
 - screws;
 - bolts;
 - clips;
 - fastenings;
 - other applicable materials that require tightening/fastening on network rail assets.
- 2. Operations to be performed include:
 - tightening;
 - fastening;
 - un-fastening.
- 3. Quality checks to be completed can include:
 - security;
 - position;
 - depth;
 - torque.
- 4. Additional PPE can include:
 - gloves;
 - goggles;
 - ear defenders.

Knowledge statements

Candidates shall have knowledge and understanding of:

- 1. which engineering specifications, documentation and risk control sheets relate to tightening and/or fastening equipment, of fastenings clips and/or bolts and other relevant materials;
- 2. which sockets and/or associated equipment to use for various applications;
- 3. what appropriate tightening and fastening methods and techniques are applied;
- 4. what equipment operating and care procedures as defined by Network Rail or manufacturer;
- 5. how to determine what limitations apply to reduce Hand Arm Vibration risks;
- 6. quality control procedures and recognition of machining defects when tightening, fastening and/or unfastening.
- 7. how to limit the impact of your work on the safety of others and assets;
- 8. who to communicate with and at what stage when undertaking the activity;
- 9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, i and j using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.11 PTMP05 Safe use of rail adjustment equipment

E.11.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use rail adjustment equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.11.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use rail adjustment equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples rail adjustment equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.11.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate rail adjustment equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare rail adjustment equipment for use on the infrastructure.

Element 2: Operate rail adjustment equipment safely and effectively and effectively achieve the required engineering outcome.

E.11.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of rail adjustment equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.11.5 Initial assessment, maintenance of competence and competence renewal

E.11.5.1 Initial assessment.

Where there is no mentoring requirement, 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 which complies with the appropriate procedures.

- a test of the knowledge essential for the appropriate rail adjustment equipment. (As indicated in this unit and detailed in applicable documents and procedures).

Where mentoring is required, initial assessment decisions shall be made where there is satisfactory evidence of completion of training and mentoring and shall be gathered from the candidate undertaking the activities in the work place.

This shall include a competence assessment within 4 months of initial training to confirm that;

- the performance requirements of this unit have been met; **and**
- the candidate has the knowledge as defined in the table below.

Where competence cannot be confirmed competence shall be dealt with as detailed in **4.10**.

E.11.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of rail adjustment equipment activities.

This should include confirmation that:

- the competence has been used on sufficient number of occasions (on at least four (4) occasions for lightweight and hydraulic tensors, and at least one (1) occasion for all other rail adjustment equipment within scope) 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 **4.10**.

E.11.5.3 Competence renewal

E.11.5.3.1 Light weight and hydraulic tensors

Competence shall be renewed at least every 3 years by means of training.

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 light weight and hydraulic tensors has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the light weight and hydraulic tensors equipment safely and correctly in line with the performance statements.

E.11.5.3.2 All other rail adjustment equipment within scope

Competence for all types of rail adjustment equipment within scope do not expire.

E.11.6 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 employers company procedures.

PTMP05 Safe use of rail adjustment equipment

Element 1: Prepare rail adjustment equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- d. protect themselves and others from risks that arise when preparing the rail adjustment equipment for use;
- e. deal promptly and effectively with problems within their control and report those that cannot be solved;
- f. communicate effectively with all relevant parties and in line with procedures
- g. follow recording, reporting and escalation procedures.

Scope of competence

1. Preparation and checks includes:
 - correct assembly and security of components;
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test.
3. They shall be concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of power source;
 - suitability of associated equipment.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to assemble and set up component parts;
3. what equipment care and control procedures apply to rail adjustment equipment;
4. how to determine whether rail adjustment equipment is suitable for the task required;
5. what risks associated with the preparation of rail adjustment equipment and how this can affect the safety of others;
6. how to complete the necessary checks and what action to take if a problem occurs;
7. what safety precautions need to be taken when fuelling or connecting to hydraulic power sources;
8. who to communicate with and at what stage when undertaking preparation checks;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, and d, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP05 Safe use of rail adjustment equipment

Element 2: Operate rail adjustment equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the rail adjustment equipment is set up and ready for use;
- c. confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work;
- d. operate the rail adjustment equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. produce finished work to the required quality and within the specified dimensional accuracy;
- g. carry out quality checks at suitable intervals;
- h. deal promptly and effectively with problems within their control and report those that cannot be solved;
- i. shut down the equipment to a safe condition on conclusion of the activities;
- j. follow recording, reporting and escalation procedures

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications, documentation and risk control sheets relate to rail adjustment equipment;
2. which associated equipment to use for various applications;
3. what appropriate rail adjustment methods and techniques are applied;
4. what equipment operating and care procedures as defined by Network Rail or the manufacturer;
5. how to determine what limitations apply to reduce Hand Arm Vibration risks;
6. quality control procedures and how to recognise defects when adjusting, straightening, stressing, pushing and/or pulling;
7. how to limit the impact of their work on the safety of others and assets;
8. who to communicate with and at what stage when undertaking the activity;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out on:
 - rails;
 - sleepers.
2. Operations to be performed include:
 - adjust;
 - straighten;
 - stress;
 - pull/push.
3. Quality checks to be completed include:
 - security;
 - position;
 - pressure;
 - gap in rail.
4. Additional PPE includes:
 - gloves;
 - goggles;
 - ear defenders.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g and i using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.12 PTMP06 Safe use of compacting, breaking and digging equipment

E.12.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use compacting, breaking and digging equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.12.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use compacting, breaking and digging equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of compacting, breaking and digging equipment as listed in CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.12.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate compacting, breaking and digging equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

- Element 1: Prepare compacting, breaking and digging equipment for use on the infrastructure.
- Element 2: Operate compacting, breaking and digging equipment safely and effectively achieve the required engineering outcome.

E.12.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of compacting, breaking and digging equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.12.5 Initial assessment, maintenance of competence and competence renewal

E.12.5.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for compacting, breaking and/or digging equipment as appropriate. (As indicated in this unit and detailed in applicable documents and procedures).

E.12.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of compacting, breaking and digging equipment activities.

This should include confirmation that:

- the competence has been used on at least one (1) occasion 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 **4.10**.

E.12.5.3 Competence renewal

Competence for all types of compacting, breaking and digging equipment within scope does not expire.

E.12.6 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 employers company procedures.

PTMP06 Safe use of compacting, breaking and digging equipment

Element 1: Prepare compacting, breaking and digging equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that they are in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing the compacting, breaking and digging equipment for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Scope of competence

1. Preparation and checks include:

<ul style="list-style-type: none"> ▪ correct fitting of attachments; ▪ position of equipment; ▪ service date; 	<ul style="list-style-type: none"> ▪ checking for damage; ▪ fluid levels; ▪ safety devices.
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2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test.
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of Power source;
 - a. cables plugs and sockets;
 - b. generators;
 - c. engine powered.
 - suitability of associated equipment:
 - a. tamping tines;
 - b. breaker points;
 - c. clay spade;
 - d. compaction tool.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type of attachment is required for the particular equipment type;
3. how to confirm that the attachment is correctly fitted to the equipment;
4. what equipment care and control procedures apply to compacting, breaking and/or digging equipment;
5. how to determine whether compacting, breaking and/or digging equipment is suitable for the task required;
6. what risks associated with the preparation of compacting, breaking and/or digging equipment and how this can affect the safety of others and assets;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to electrical, pneumatic or hydraulic power sources;
9. who to communicate with and at what stage when undertaking preparation check;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, and e using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP06 Safe use of compacting, breaking and digging equipment

Element 2: Operate compacting, breaking and digging equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the compacting, breaking and/or digging equipment is set up and ready for use;
- c. confirm that suitable arrangements and authorisations are in place to maintain the safety of self and others who maybe affected by the work;
- d. operate the compacting, breaking and/or digging equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. produce finished work to the required quality and within the specified dimensional accuracy;
- g. carry out quality checks at suitable intervals;
- h. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- i. shut down the equipment to a safe condition on conclusion of the activities;
- j. dispose of waste materials in accordance with company guidelines;
- k. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications, documentation and risk control sheets relate to compacting, breaking and/or digging equipment;
2. which attachments to use for various applications;
3. what appropriate compacting, breaking and/or digging equipment methods and techniques are applied;
4. equipment operating and care procedures as defined by Network Rail or manufacturer;
5. how to determine what limitations apply to reduce Hand Arm Vibration risks;
6. quality control procedures and recognition of machining defects when compacting, breaking and/or digging;
7. how to limit the impact of your work on the safety of others and assets;
8. who to communicate with, and at what stage when undertaking the activity;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations carried out on:
 - ballast;
 - concrete;
 - tarmac;
 - hardcore;
 - other applicable materials that require compacting/breaking/digging on network rail infrastructure.
2. Operations to be performed include:
 - digging;
 - compacting;
 - breaking.
3. Quality checks to be completed include:
 - compaction;
 - level;
 - position;
 - depth.
4. Additional PPE can include:
 - gloves;
 - goggles;
 - ear defenders;
 - dust masks

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, i and j using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.13 PTMP07 Safe use of lifting and moving equipment on rail

E.13.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use lifting and moving equipment on rail safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.13.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use lifting and moving equipment on rail on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of lifting and moving equipment on rail as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.13.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate lifting and moving equipment on rail. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare lifting and moving equipment for use on rail on the infrastructure

Element 2: Operate lifting and moving equipment on rail safely and effectively achieve the required engineering outcome.

E.13.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of lifting and moving equipment on rail equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.13.5 Initial assessment, maintenance of competence and competence renewal

E.13.5.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for lifting and moving equipment as appropriate. (As indicated in this unit and detailed in applicable documents and procedures).

E.13.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of lifting and moving equipment on rail activities.

This should include confirmation that:

- the competence has been used on sufficient number of occasions (on at least four (4) occasions for Ironman equipment, at least two (2) occasions for scooters skates and jacks, and at least one (1) occasion for all other lifting and moving on rail equipment within scope) 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 **4.10**.

E.13.5.3 Competence renewal

E.13.5.3.1 Ironman

Competence shall be renewed at least every 3 years by means of training.

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 ironman equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the ironman equipment safely and correctly in line with the performance statements.

E.13.5.3.2 Scooters, skates and jacks

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 scooters, skates and jack equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the scooters, skates and jack equipment safely and correctly in line with the performance statements.

E.13.5.3.3 All other lifting and moving equipment on rail within scope

Competence for all types of lifting and moving equipment on rail within scope does not expire.

E.13.6 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 employers company procedures.

PTMP07 Safe use of lifting and moving equipment on rail

Element 1: Prepare lifting and moving equipment for use on rail on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing the lifting equipment for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type of accessories are required for the particular equipment type;
3. how to confirm that the accessories are correctly fitted to the equipment;
4. what equipment care and control procedures apply to lifting and moving equipment;
5. how to determine whether lifting and moving equipment is suitable for the task required;
6. what risks associated with the preparation of lifting and moving equipment and how this can affect the safety of others;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to hydraulic power sources;
9. who to communicate with and at what stage when undertaking preparation checks;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - checking rating (Working Loading Limit);
 - condition of chains, and hooks;
 - loose lifting accessories;
 - braking mechanisms and functionality;
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test;
3. They are concerned with establishing:
 - certification validity;
 - lift plan and other relevant documentation;
 - wear and defects;
 - suitability for task;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of power source;
 - suitability of associated equipment;
 - a. loose lifting accessories;
 - b. clamps;
 - c. jack handles.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d and e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP07 Safe use of lifting and moving equipment on rail

Element 2: Operate lifting and moving equipment safely and effectively to achieve the required engineering outcome

a. Performance statements

- b. Candidates shall be able to:
- c. work safely at all times, complying with health and safety and other relevant regulations and guidelines including PPE;
 - d. confirm that the lifting and moving equipment is set up and ready for use;
 - e. confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work;
 - f. operate the lifting and moving equipment within the defined parameters;
 - g. operate the controls safely and correctly in line with operational procedures;
 - h. attach the appropriate handling equipment to the load using approved methods to eliminate slippage;
 - i. confirm, where applicable, the load is balanced and secure before moving;
 - j. lift, position, lower and release the load safely;
 - k. deal promptly and effectively with problems within their control and report those that cannot be resolved;
 - l. shut down the equipment to a safe condition on conclusion of the activities;
 - m. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications, documentation and risk control sheets relate lifting and moving equipment;
2. when a lift plan is required and what it consists of;
3. which rail lifting and moving accessories to use for various applications;
4. what appropriate rail lifting and moving methods and techniques are applied;
5. equipment operating and care procedures as defined by Network Rail or the manufacturer;
6. what risk control procedures apply when lifting, moving and or lowering
7. how to limit the impact of their work on the safety of others people and assets;
8. who to communicate with and at what stage when undertaking the activity;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out within the limitations of the lifting and moving equipment
2. Operations to be performed include:
 - lifting;
 - moving;
 - lowering;
3. Loads can be:
 - balanced;
 - unbalanced;
 - symmetrical;
 - asymmetrical.
4. Additional PPE can include:
 - gloves;
 - ear defenders,

Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, h, i, j and k using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.14 PTMP08 Safe use of portable lighting tower equipment

E.14.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use portable lighting tower equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.14.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use portable lighting tower equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of portable lighting tower equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.14.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and use rail lighting towers. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare portable lighting towers for use on the infrastructure.

Element 2: Use portable lighting tower equipment safely and effectively and effectively achieve the required engineering outcome.

E.14.4 Initial assessment, maintenance of competence and competence renewal

E.14.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for portable lighting tower equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.14.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of portable lighting tower equipment activities.

This should include confirmation that:

- the competence has been used on at least one (1) occasion 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 **4.10**.

E.14.4.3 Competence renewal

Competence for all types of portable lighting tower equipment within scope does not expire.

E.14.5 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 employers company procedures.

PTMP08 Safe use of portable lighting towers equipment

Element 1: Prepare portable lighting tower equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in safe and usable condition;
- c. carry out the necessary preparation and checks to confirm equipment is in line with working requirements;
- d. protect themselves and others from risks that arise when preparing the portable lighting tower equipment for use;
- e. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- f. communicate effectively with all relevant parties and in line with procedures;
- g. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. what equipment care and control procedures apply to portable lighting tower equipment;
3. how to determine whether portable lighting tower equipment is suitable for the task required;
4. what risks associated with the preparation of portable lighting tower equipment and how this can affect the safety of 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 when fuelling or connecting to a electrical power source;
7. who to communicate with, and at what stage when undertaking preparation checks;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - position of equipment;
 - service date and certification;
 - checking for damage;
 - fluid levels;
 - safety devices;
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - safety device test.
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - suitability of power source:
 - a. cables, plugs and sockets;
 - b. generators;
 - c. battery;
 - d. engine.
 - suitability of associated equipment :
 - a. extension cables;
 - b. base/mounting bracket .

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP08 Safe use of portable lighting tower equipment

Element 2 Use portable lighting tower equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the portable lighting tower equipment is set up and ready for use;
- c. use the portable lighting towers equipment within the defined parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- f. shut down and stow the equipment to a safe condition on conclusion of the activities;
- g. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

- 1. which engineering specifications, documentation and risk control sheets relate to the use of portable lighting tower equipment;
- 2. what types of portable lighting tower equipment is available and the differences in their application and use;
- 3. what set up methods and techniques are applied;
- 4. operating and care procedures as defined by Network Rail or the manufacturer;
- 5. the likely impact of their work on others and the impact of their work on you;
- 6. who to communicate with and at what stage when undertaking activities;
- 7. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

- a. Quality checks to be completed can include:
 - position;
 - height.
- b. Additional PPE can includes
 - gloves;
 - ear defenders.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, and f using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.15 PTMP09 Safe use of line side plant

E.15.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and operate line side plant safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.15.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and operate line side plant on Network Rail managed infrastructure or on Network Rail owned or leased property.

This competence unit does not cover use of chainsaws.

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

The scope of this unit includes examples of line side plant equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.15.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate line side plant. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare line side plant for use on the infrastructure.

Element 2: Operate line side plant safely and effectively achieve the required engineering outcome.

E.15.4 Equipment specific endorsements

This competence unit shall be endorsed with other types line side plant equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.15.5 Initial assessment, maintenance of competence and competence renewal

E.15.5.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for line side plant. (As indicated in this unit and detailed in applicable documents and procedures).

E.15.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of line side plant equipment activities.

This should include confirmation that:

- the competence has been used on sufficient number of occasions (on at least two (2) occasions for wood chipper, and at least three (3) occasions for all other line side plant equipment within scope) 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 **4.10**.

E.15.5.3 Competence renewal

E.15.5.3.1 Wood chipper

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 twice (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 wood chipper has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the wood chipper equipment safely and correctly in line with the performance statements.

E.15.5.3.2 Bush fighter

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 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 bush fighter equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**

- the candidate continues to demonstrate the use bush fighter equipment safely and correctly in line with the performance statements.

E.15.5.3.3 All other line side plant equipment within scope

Competence shall be renewed at least every 4 years by means of training.

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 line side plant equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use line side plant equipment safely and correctly in line with the performance statements.

E.15.6 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 employers company procedures.

PTMP09 Safe use of line side plant

Element 1: Prepare line side plant for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to confirm equipment in line with working requirements;
- e. protect themselves and others from risks that arise when preparing the line side plant for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. dispose of waste materials in accordance with company guidelines;
- i. follow recording, reporting and escalation procedures;

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. the specific risks associated with line side plant and control measures required when preparing the equipment for use;
3. what equipment care and control procedures apply to line side plant;
4. how to determine whether line side plant is suitable for the task required;
5. what risks associated with the preparation of line side plant and how this can affect the safety of others;
6. how to complete the necessary checks and tests what action to take if a problem occurs;
7. what safety precautions need to be taken when fuelling;
8. who to communicate with and at what stage when undertaking preparation check;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices;
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - safety device test.
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - suitability of associated equipment:
 - a. harnesses;
 - b. interchangeable heads and guards;
 - c. correct consumables;
 - d. appropriate hand tools.

Performance Evidence

Performance evidence shall be collected of the candidate completing performance statements b c, d, e, and g using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP09 Safe use of line side plant

Element 2 Operate line side plant safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the line side plant is set up and ready for use;
- c. operate the line side plant within the defined parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. produce finished work to the required quality and within the specified dimensional accuracy;
- f. carry out quality checks at suitable intervals;
- g. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- h. dispose of waste materials in accordance with company guidelines;
- i. shut down the equipment to a safe condition on conclusion of the activities;
- j. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications relates to operating line side equipment;
2. what setting methods and techniques are applied;
3. operating and care procedures as defined by Network Rail or manufacturer;
4. quality control procedures when undertaking vegetation control activities;
5. the likely impact of their work others and the impact of their work for you;
6. who to communicate with and at what stage when undertaking preparation check;
7. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out on:
 - line side vegetation;
 - other applicable sites on network rail assets.
2. Operations to be performed include:
 - trimming Line side vegetation;
 - cutting Line side vegetation;
 - chipping Line side vegetation;
3. Quality checks to be completed can include:
 - size;
 - position;
 - depth;
 - completion to required standard.
4. Additional PPE can includes:
 - gloves;
 - goggles/visor;
 - ear defenders;
 - masks.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, h and i using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.16 PTMP10 Safe use of needle guns

E.16.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and operate needle guns safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.16.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and operate needle guns on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of needle gun equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.16.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate needle gun. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare needle guns for use on the infrastructure

Element 2: Operate needle guns safely and effectively achieve the required engineering outcome

E.16.4 Initial assessment, maintenance of competence and competence renewal

E.16.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for needle gun equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.16.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of needle gun equipment activities.

This should include confirmation that:

- the competence has been used on at least one (1) occasion 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 **4.10**.

E.16.4.3 Competence renewal

Competence for all types of needle gun equipment within scope do not expire.

E.16.5 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 employers company procedures.

PTMP10 Safe use of needle gun equipment

Element 1: Prepare needle guns for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing the needle guns for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. what equipment care and control procedures apply to needle guns;
3. how to determine whether needle guns are suitable for the task required;
4. what risks associated with the preparation of needle guns and how this can affect the safety of 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 when connecting to a power source;
7. who to communicate with and at what stage when undertaking preparation check;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - service date;
 - checking for damage;
 - power sources.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks.
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - lubricant levels;
 - suitability of power source;
 - a. cables plugs and sockets;
 - b. generators;
 - c. compressor.

Performance Evidence

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;

PTMP10 Safe use of needle guns

Element 2 Operate needle guns safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the needle gun is set up and ready for use;
- c. operate the needle gun within the define parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. produce finished work to the required quality and within the specified dimensional accuracy;
- f. carry out quality checks at suitable intervals;
- g. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- h. dispose of waste materials in accordance with company guidelines;
- i. shut down the equipment to a safe condition on conclusion of the activities;

Knowledge statements

Candidates shall have knowledge and understanding of:

- 1. which engineering specifications relates to the use of needle guns;
- 2. operating and care procedures as defined by Network Rail or the manufacturer;
- 3. needle gun characteristics of different materials including various steel, and concrete;
- 4. quality control procedures and recognition of defects when:
- 5. de-scaling;
- 6. removing coating.
- 7. the likely impact of their work on others or assets;
- 8. who to communicate with and at what stage when undertaking preparation check;
- 9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

- 1. Operations carried out on:
 - rails;
 - other applicable materials on network rail assets.
- 2. Operations to be performed include:
 - de-scaling;
 - removing coatings.
- 3. Quality checks to be completed include:
 - finish.
- 4. Materials to be de-scaled include
 - various steel;
 - concrete.
- 5. Additional PPE can includes
 - gloves;
 - goggles;
 - ear defenders;
 - masks.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, h and i using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.17 PTMP11 Safe use of hinged column counterbalance jack (Pole Dropper) equipment

E.17.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use hinged column counterbalance jack (Pole Dropper) safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.17.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use hinged column counterbalance jack (Pole Dropper) on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of hinged column counterbalance jack equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.17.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate hinged column counterbalance jack (Pole Dropper). The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare hinged column counterbalance jack (Pole Dropper) for use on the infrastructure.

Element 2: Operate hinged column counterbalance jack (Pole Dropper) safely and effectively achieve the required engineering outcome

E.17.4 Equipment specific endorsements

This competence unit shall be endorsed with other types of hinged column counterbalance jack equipment by either training or briefing as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.17.5 Initial assessment, maintenance of competence and competence renewal

E.17.5.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for hinged column counterbalance jack as appropriate. (As indicated in this unit and detailed in applicable documents and procedures).

E.17.5.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of hinged column counterbalance jack equipment activities.

This should include confirmation that:

- the competence has been used on at least one (1) occasion 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 **4.10**.

E.17.5.3 Competence renewal

Competence for all types of rail adjustment equipment within scope does not expire.

E.17.6 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 employers company procedures.

PTMP11 Safe use of hinged column counterbalance jack (Pole Dropper)

Element 1: Prepare hinged column counterbalance jack (Pole Dropper) for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials confirm that it is in safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing hinged column counterbalance jack (Pole Dropper) for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved
- g. communicate effectively with all relevant parties and in line with procedures

1. Knowledge statements

2. Candidates shall have knowledge and understanding of:
3. what equipment preparation methods and procedures apply;
4. what equipment care and control procedures apply to hinged column counterbalance jack (Pole Dropper);
5. how to determine whether a hinged column counterbalance jack (Pole Dropper) is suitable for the task required;
6. what risks associated with the preparation of hinged column counterbalance jack (Pole Dropper) and how this can affect the safety of others;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when connecting to a power source;
9. who to communicate with and at what stage when undertaking preparation check;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

Scope of competence

1. Preparation and checks include:
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - power sources;
 - suitability for activity.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fluid levels;
 - suitability of power source :
 - a. cables plugs and sockets
 - suitability of associated equipment
 - a. springs

PTMP11 Safe use of hinged column counterbalance jack (Pole Dropper)

Element 2 Operate hinged column counterbalance jack (Pole Dropper) safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the hinged column counterbalance jack (Pole Dropper) is set up and ready for use;
- c. operate the hinged column counterbalance jack (Pole Dropper) within the defined parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. carry out quality checks at suitable intervals and upon completion of the activity;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. disconnect the equipment and remove it to a safe location on conclusion of the activities;

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications relates to hinged column counterbalance jack (Pole Dropper);
2. which hinged column counterbalance jack (Pole Dropper) to use for various applications;
3. what setting methods and techniques are applied;
4. operating and care procedures as defined by Network Rail or the manufacturer;
5. quality control procedures when lifting and/or lowering
6. the likely impact of their work on others and assets;
7. who to communicate with and at what stage when undertaking preparation checks;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, and g using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;

Scope of competence

1. Operations to be carried out on:
 - hinged columns;
 - hinged poles.
2. Operations to be performed includes:
 - lowering;
 - lifting.
3. Additional PPE can includes:
 - Gloves

E.18 PTMP12 Safe use of scaffold equipment

E.18.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use scaffold equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.18.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use scaffold equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of scaffolding as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.18.3 Competence Requirements

E.18.3.1 Prefabricated scaffolding.

Individuals requiring to construct scaffolding equipment are required to be certificated in PASMA (Prefabricated Access Supplier and Manufacturers Association), or equivalent.

Prior to using these on the Network Rail Infrastructure successful completion of the 'Safe Use of Portable and Transportable Plant' briefing module is required.

E.18.3.2 Scaffolding trolley

Individuals requiring to construct scaffolding trolleys are required to be certificated in PASMA (Prefabricated Access Supplier and Manufacturers Association) or equivalent **and** PTMP16 Safe use of trolley equipment.

E.18.3.3 Other scaffolding.

Individuals requiring to construct scaffolding equipment are required to hold CISRS (Construction Industry Scaffolders Records Scheme) certification or equivalent.

Prior to using these on the Network Rail Infrastructure successful completion of the 'Safe Use of Portable and Transportable Plant' briefing module is required.

E.19 PTMP13 Safe use of cable avoidance equipment

E.19.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use cable avoidance equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.19.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use cable avoidance equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

This scope of this unit includes examples of cable avoidance equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.19.3 Competence unit

To prove competence in this unit, the candidate shall be able to demonstrate their ability to use the cable avoidance equipment to locate buried service in accordance with instructions. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises of two elements:

Element 1: Use appropriate equipment to locate and avoid buried services

Element 2: Operate cable avoidance equipment safely and effectively to achieve the required engineering outcome

These elements deal with the safe use of appropriate equipment to locate and avoid buried services in line with working practices.

E.19.4 Initial assessment, maintenance of competence and competence renewal

E.19.4.1 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 which complies with the appropriate procedures.

- a test of the knowledge essential for cable avoidance equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.19.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of cable avoidance equipment activities.

This should include confirmation that:

- the competence has been used on at least four (4) 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 **4.10**.

E.19.4.3 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 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 cable avoidance equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the cable avoidance equipment safely and correctly and in line with the performance statements.

E.19.5 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 employers company procedures.

PTMP13 Safe use of cable avoidance equipment

Element 1: Prepare cable avoidance equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment confirm that it is in safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing cable avoidance equipment for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be solved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. what equipment care and control procedures apply to cable avoidance equipment;
3. how to determine whether cable avoidance equipment is suitable for the task required;
4. what risks associated with the preparation of cable avoidance equipment and how this can affect the safety of others and assets;
5. how to complete the necessary checks and what action to take if a problem occurs;
6. what safety precautions need to be taken when connecting to a power source;
7. who to communicate with, and at what stage when undertaking preparation checks;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - service date;
 - checking for damage;
 - power pack;
 - suitability for activity.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - test function checks.
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - suitability of power pack.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, and e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP13 Safe use of cable avoidance equipment

Element 2 Operate cable avoidance equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the cable avoidance equipment is set up and ready for use;
- c. operate the cable avoidance within the defined parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. carry out quality checks at suitable intervals and upon completion of the activity;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. remove the equipment to a safe location on conclusion of the activities;
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which specifications relate to cable avoidance equipment;
2. which cable avoidance equipment to use for various applications;
3. what setting methods and techniques are applied;
4. the likely impact of your work on others and assets;
5. who to communicate with, and at what stage when undertaking preparation checks;
6. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out are locating buried service
 - Cables / pipes
2. Operations to be performed include:
 - Local Scanning
 - Zone scanning

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, and g using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.20 PTMP14 Safe use of nail gun equipment

E.20.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use nail gun equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.20.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and nail gun equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of nail gun equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.20.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate nail gun equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare nail gun equipment for use on the infrastructure.

Element 2: Operate nail gun equipment safely and effectively achieve the required engineering outcome.

E.20.4 Initial assessment, maintenance of competence and competence renewal

E.20.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for nail gun equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.20.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of nail gun equipment activities.

This should include confirmation that:

- the competence has been used on at least two (2) 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 **4.10**.

E.20.4.3 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 nail gun equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures);
and
- the candidate continues to demonstrate the use of the nail gun equipment safely and correctly in line with the performance statements.

E.20.5 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 employers company procedures.

PTMP14 Safe use of nail gun equipment

Element 1: Prepare nail gun equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials confirm that it is in safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing the nail gun equipment for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. what equipment care and control procedures apply to nail gun equipment;
3. how to determine whether a nail gun equipment is suitable for the task required;
4. what risks associated with the preparation of nail gun equipment and how this can affect the safety of others and assets;
5. how to complete the necessary checks and what action to take if a problem occurs;
6. what safety precautions need to be taken when checking power source;
7. who to communicate with and at what stage when undertaking preparation checks;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - service date;
 - checking for damage;
 - power source;
 - safety devices;
 - attached head.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - power delivery test.
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - suitability of power source;
 - the correct attachment is connected.
 - a. stamping head;
 - b. fixing head.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, and e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP14 Safe use of nail gun equipment

Element 2 Operate pressure operated gun equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the pressure operated gun equipment is set up and ready for use;
- c. operate the pressure operated gun equipment within the define parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. produce finished work to the required quality and within the specified dimensional accuracy;
- f. carry out quality checks at suitable intervals;
- g. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- h. confirm the equipment is in a safe condition on conclusion of the activities;
- i. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which pressure operating gun equipment and attachments to use for various applications;
2. what setting methods and techniques are applied;
3. operating and care procedures as defined by Network Rail or the manufacturer;
4. pressure operated gun equipment characteristics of different materials including various steel, timber and concrete;
5. quality control procedures and recognition of defects when stamping and/or fixing;
6. the likely impact of their work on others and assets;
7. who to communicate with, and at what stage when undertaking preparation checks;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out on:
 - timber;
 - concrete;
 - steel;
 - other applicable materials on network rail assets.
2. Operations to be performed include:
 - stamping;
 - fixing.
3. Quality checks to be completed include:
 - accuracy;
 - position;
 - depth;
 - security.
4. Additional PPE can include:
 - gloves;
 - goggles;
 - ear defenders.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f and h using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.21 PTMP15 Safe use of rail head cleaning unit equipment

E.21.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use rail head cleaning unit equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.21.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use rail head cleaning unit equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of rail head cleaning unit equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.21.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate rail head cleaning unit equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare rail head cleaning unit equipment for use on the infrastructure.

Element 2: Operate rail head cleaning unit equipment safely and effectively achieve the required engineering outcome.

E.21.4 Initial assessment, maintenance of competence and competence renewal

E.21.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for rail head cleaning unit equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.21.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of rail head cleaning unit equipment activities.

This should include confirmation that:

- the competence has been used on at least one (1) 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 **4.10**.

E.21.4.3 Competence renewal

Competence for all types of rail head cleaning unit equipment within scope do not expire.

E.21.5 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 employers company procedures.

PTMP15 Safe use of rail head cleaning unit equipment

Element 1: Prepare rail head cleaning unit equipment for use on the infrastructure

a. Performance statements

- b. Candidates shall be able to:
- c. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
 - d. obtain all the required equipment confirm that it is in safe and usable condition;
 - e. confirm that the equipment being prepared is suitable for the work;
 - f. carry out the necessary preparation and checks to equipment in line with work requirements;
 - g. protect themselves and others from risks that arise when preparing the rail scrubber equipment for use;
 - h. deal promptly and effectively with problems within their control and report those that cannot be resolved;
 - i. communicate effectively with all relevant parties and in line with procedures
 - j. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. what equipment care and control procedures apply to rail head cleaning unit equipment;
3. how to determine whether rail head cleaning unit equipment is suitable for the task required;
4. what risks associated with the preparation of rail head cleaning unit equipment and how this can affect the safety of others and assets;
5. how to complete the necessary checks and what action to take if a problem occurs;
6. what safety precautions need to be taken when fuelling;
7. who to communicate with and at what stage when undertaking preparation checks;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - service date;
 - checking for damage;
 - fluid levels.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks
3. They are concerned with establishing:
 - certification validity;
 - wear and defects;
 - suitability for task;
 - environmental acceptability;
 - quarantine requirements;
 - fuel and lubricant levels;
 - condition of brushes.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, and e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records;

PTMP15 Safe use of rail head cleaning unit equipment

Element 2 Operate rail head cleaning unit equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the rail head cleaning unit equipment is set up and ready for use;
- c. operate the rail head cleaning unit equipment within the defined parameters;
- d. manipulate the controls safely and correctly in line with operational procedures;
- e. produce finished work to the required quality;
- f. carry out quality checks at suitable intervals;
- g. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- h. shut down the equipment and remove to a safe location on conclusion of the activities;
- i. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what setting methods and techniques are applied;
2. operating and care procedures as defined by Network Rail or the manufacturer;
3. how to confirm the rail has been adequately cleaned;
4. the likely impact of your work on others and assets;
5. who to communicate with and at what stage when undertaking preparation checks;
6. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out on rails
2. Operations to be performed include removing debris from rail head
3. Quality checks to be completed include effective removal of debris by visual inspection:
4. PPE can include:
 - gloves;
 - goggles;
 - ear defenders;
 - masks.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f and h using methodology below.

- observation
- authenticated work experience evidence
- performance reports
- relevant activity records

E.22 PTMP16 Safe use of trolley equipment

E.22.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use trolley equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.22.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare, and use trolleys on Network Rail managed infrastructure or on Network Rail owned or leased property.

The scope of this competence excludes such equipment as Ironman and powered plant that can be moved on rail wheels

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

The scope of this unit includes examples of trolley equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.22.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to use trolleys safely and effectively and in line with requirements. The candidate shall they can follow recording, reporting and escalation procedures.

This unit of competence comprises two elements

Element 1: Prepare trolley equipment for use on the infrastructure.

Element 2: Use trolley equipment safely and effectively.

E.22.4 Initial assessment, maintenance of competence and competence renewal

E.22.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for trolleys. (As indicated in this unit and detailed in applicable documents and procedures).

E.22.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of trolley equipment activities.

This should include confirmation that:

- the competence has been used on at least two (2) occasion 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 **4.10**.

E.22.4.3 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 trolley equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of the trolley equipment safely and correctly in line with the performance statements.

E.22.5 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 employers company procedures.

PTMP16 Safe use of trolley equipment

Element 1: Prepare for the movement and operation of trolleys

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. establish the limits and characteristics of the work area;
- c. confirm that the trolley is appropriate for the activity to be undertaken and work area has the necessary authorisations;
- d. carry out the necessary preparation checks to equipment in line with work requirements;
- e. confirm that there are sufficient resources available to safely complete the loading and movement of the trolley;
- f. confirm that personnel involved in the work are suitably equipped and fully understand their responsibilities and the scope of the work;
- g. confirm, before work starts, that the protection arrangements are appropriate for the placing the trolley on track, and work area for the task to be undertaken;
- h. deal with any instances where the preparation requirements cannot be fully met;
- i. communicate effectively with all relevant parties and in line with procedures
- j. complete relevant records accurately and pass them on to the appropriate person where required.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which rules and procedures apply to the work and how to verify the requirements are met;
2. how each of the items listed in Scope statement 4 shall affect the way work is completed and how to verify that the Trolley is suitable;
3. how each of the items listed in scope statement 4 shall affect the protection arrangements;
4. what preparatory checks need to be completed on the trolley;
5. how to confirm that the braking system is fit for purpose;
6. how to confirm that the trolley is assembled to specification;
7. how to confirm that the protection arrangements are appropriate for the work area;
8. who needs to be communicated with, when and what information should be given/received;
9. when work can commence and who has the authority to allow work to commence;
10. how to deal with situations where preparation requirements cannot be fully met;
11. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks can include:

- | | |
|---|---|
| <ul style="list-style-type: none"> ▪ service date; ▪ checking for damage; ▪ assembly to specification; | <ul style="list-style-type: none"> ▪ brake tests. ▪ Accessories (where used) are fit for purpose and certificated |
|---|---|

2. The equipment safety and preparation checks shall be conducted by:

- visual checks
- physical checks

3. They are concerned with establishing:

- certification validity;
- wear and defects;
- suitability for task;
- quarantine requirements;
- brake effectiveness.

4. Limits and characteristics of the work area that should be taken into account include:

- lines that remain open to traffic;
- gradient;
- cant;
- third and fourth rail electrified lines.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f and d using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP16 Safe use of trolley equipment

Element 2: Operate trolley equipment safely and effectively

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain permission from relevant people prior to authorising any movement;
- c. confirm the trolleys and accessories (where used) are in appropriate condition to allow the movement to be completed safely;
- d. confirm that there are sufficient resources available during the movement of the trolley;
- e. confirm that the load is secure and does not exceed the load capabilities of the trolley;
- f. confirm the status of the infrastructure prior to trolley movements;
- g. establish the precise extent over which the movement can occur;
- h. confirm the operator understands the precise extent over which the movement can occur;
- i. complete relevant records accurately and pass them on to the appropriate person where required;
- j. use appropriate communications techniques to control the operation.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which rules and procedures apply to the work and how to verify the requirements are met;
2. whose permission needs to be sought prior to authorising any movement;
3. what checks need to be undertaken to confirm that the loaded trolley is safe to move;
4. how the condition of the infrastructure can affect the safety of the movement;
5. what information needs to be given to the operator and how to confirm the operator understands the extent of the movement;
6. how to deal with situations where movement requirements cannot be fully met;
7. what records need to be completed and how these records should be processed;
8. what actions to take in the event of an incident or irregularity occurring during the movement of the trolley.

Scope of Competence

1. Status of the infrastructure that have to be taken into account includes:
 - condition of the track;
 - position of points;
 - obstructions caused by infrastructure equipment/structures and/or other work.
2. Relevant people can include:
 - COSSs
 - Work group
3. Track conditions included (but not limited to) are:
 - Up and down gradients
 - Level track
 - Plain and S&C area
 - Level Crossings
 - Canted track
 - Axle counters
 - Poor rail head conditions
 - Limit clearances and other hazards

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, and f using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records;

E.23 PTMP17 Safe use of general lifting and moving equipment

E.23.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use lifting and moving equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.23.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use lifting and moving equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of general lifting and moving equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.23.3 Competence unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate lifting and moving equipment. The candidate shall show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare lifting and moving equipment for use on the infrastructure

Element 2: Operate lifting and moving equipment safely and effectively and effectively achieve the required engineering outcome

E.23.4 Initial assessment, maintenance of competence and competence renewal

E.23.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for lifting and moving equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.23.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of lifting and moving equipment activities.

This should include confirmation that:

- the competence has been used on at least one (1) occasion 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 **4.10**.

E.23.4.3 Competence renewal

Competence for all types of general lifting equipment within scope does not expire.

E.23.5 Results

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/001 Competence Management Systems process and in line with the employers company procedures.

PTMP17 Safe use of general lifting and moving equipment

Element 1: Prepare lifting and moving equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing the lifting equipment for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Scope of competence

1. Preparation and checks include:
 - checking rating (Working Loading Limit);
 - condition of cables, wires and hooks;
 - loose lifting accessories;
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices;
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test.
3. They are concerned with establishing:
 - certification validity;
 - lift plans and other relevant documentations
 - wear and defects;
 - suitability for task;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of power source;
 - suitability of associated equipment;
 - loose lifting accessories.

1. Knowledge statements

2. Candidates shall have knowledge and understanding of:
3. what equipment preparation methods and procedures apply;
4. how to determine what type of loose lifting accessories are required for the particular equipment type;
5. how to confirm that the loose lifting accessories are correctly fitted to the equipment;
6. what equipment care and control procedures apply to lifting equipment;
7. how to determine whether lifting equipment is suitable for the task required;
8. what risks associated with the preparation of lifting equipment and how this can affect the safety of others and assets;
9. how to complete the necessary checks and what action to take if a problem occurs;
10. what safety precautions need to be taken when fuelling or connecting to electrical or hydraulic power sources;
11. who to communicate with, and at what stage when undertaking preparation checks;
12. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d and e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP17 Safe use of general lifting and moving equipment

Element 2: Operate lifting and moving equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the lifting and moving equipment is set up and ready for use;
- c. confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work;
- d. operate the lifting and moving equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. attach the appropriate handling equipment to the load using approved methods to eliminate slippage;
- g. confirm the load is balanced and secure before moving;
- h. position and release the load safely;
- i. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- j. shut down the equipment to a safe condition on conclusion of the activities;
- k. follow recording, reporting and escalation procedures.

Scope of competence

- 1. Operations are to be carried out within the limitations of the lifting and moving equipment
- 2. Operations to be performed include:
 - lifting;
 - moving;
 - winching;
 - lowering.
- 3. Loads can be:
 - balanced;
 - unbalanced;
 - symmetrical;
 - asymmetrical;
- 4. Additional PPE can include:
 - Gloves

Knowledge statements

Candidates shall have knowledge and understanding of:

- 1. which engineering specifications, documentation and risk control sheets relate to lifting and moving equipment;
- 2. which loose lifting accessories to use for various applications;
- 3. what appropriate lifting and moving methods and techniques are applied;
- 4. operating and care procedures as defined by Network Rail or the manufacturer;
- 5. quality control procedures when lifting, moving, winching and/or lowering;
- 6. how to limit the impact of their work on the safety of others people and assets;
- 7. who to communicate with and at what stage when undertaking the activity;
- 8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, h, i, j and k using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

E.24 PTMP18 Operate mobile plant

E.24.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use mobile plant safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.24.2 Scope

This competence applies in all circumstances where any individual is required to prepare and use mobile plant on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of Mobile plant as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.24.3 Competence Requirements

Individuals requiring to operate mobile plant are required to hold the relevant Construction Plant Competence Scheme (CPCS) certification or equivalent for the piece of Mobile plant required to be operated.

Prior to using mobile plant on the Network Rail Infrastructure successful completion of the 'Safe Use of Mobile Plant' training module is required.

E.24.4 Equipment specific endorsements

This competence unit shall be endorsed with the specific types of mobile plant equipment as detailed in CTM/220b Portable, Transportable and/or Mobile Plant Development Requirements.

E.25 PTMP19 Safe use of automatic ballast sampler and trolley equipment

E.25.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use automatic ballast sampler (ABS) and trolley equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.25.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use ABS and trolley equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of ABS and trolley equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.25.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate ABS and trolley equipment. The candidate shall have to show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare ABS and trolley equipment for use on the infrastructure

Element 2: Operate ABS and trolley equipment safely and effectively and effectively achieve the required engineering outcome

E.25.4 Initial assessment, maintenance of competence and competence renewal

E.25.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for ABS and trolley equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.25.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of ABS and Trolley equipment activities.

This should include confirmation that:

- the competence has been used on at least four (4) 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 **4.10**.

E.25.4.3 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 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 ABS and trolley equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of ABS and trolley equipment continues to be used safely and correctly in line with the performance statements.

E.25.5 Results

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/001 Competence Management Systems process and in line with the employers company procedures.

PTMP19 Safe use of ABS and Trolley equipment

Element 1: Prepare ABS and Trolley equipment for use on rail on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. assemble equipment in correct sequence
- e. carry out the necessary preparation and checks to confirm equipment is in line with work requirements;
- f. protect themselves and others from risks that arise when preparing the equipment for use;
- g. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- h. communicate effectively with all relevant parties and in line with procedures;
- i. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type of accessories are required for the particular equipment type;
3. how to confirm that the accessories are correctly fitted to the equipment;
4. what equipment care and control procedures apply to ABS and trolley equipment;
5. how to determine whether the ABS and trolley equipment is suitable for the task required;
6. what risks associated with the assembly and preparation of the ABS and trolley equipment and how this can affect the safety of others;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to hydraulic power sources;
9. who to communicate with and at what stage when undertaking preparation checks;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - supporting equipment;
 - braking mechanisms and functionality;
 - position of equipment;
 - service and brake test date;
 - checking for damage;
 - fluid levels;
 - safety devices.
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test;
3. They are concerned with establishing:
 - certification validity;
 - relevant documentation
 - wear and defects;
 - suitability for task;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of power source;
 - suitability of associated equipment;
 - a. supporting equipment;
 - b. clamps;
 - c. brake handles.

Performance Evidence

Performance evidence shall be collected of the candidate completing performance statements b, c, d and e, f using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP19 Safe use of ABS and Trolley equipment on rail

Element 2: Operate ABS and Trolley equipment safely and effectively to achieve the required engineering outcome

<p>Performance statements</p> <p>Candidates shall be able to:</p> <ol style="list-style-type: none"> work safely at all times, complying with health and safety and other relevant regulations and guidelines including PPE; confirm that the ABS and Trolley equipment is set up and ready for use; confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work; operate the ABS and Trolley equipment within the defined parameters; operate the controls safely and correctly in line with operational procedures; confirm, where applicable, the ABS equipment is secure before moving; position equipment and take samples safely; deal promptly and effectively with problems within their control and report those that cannot be resolved; shut down the equipment to a safe condition on conclusion of the activities; follow recording, reporting and escalation procedures. 	<p>Knowledge statements</p> <p>Candidates shall have knowledge and understanding of:</p> <ol style="list-style-type: none"> which engineering specifications, documentation and risk control sheets relate to the equipment; when a permit to dig is required and what it consists of; how to use the ABS and trolley equipment safely and in line with requirements; what appropriate sampling methods and techniques are applied; equipment operating and care procedures as defined by Network Rail or the manufacturer; what risk control procedures apply when : moving; sampling. how to limit the impact of their work on the safety of others people and assets; who to communicate with and at what stage when undertaking the activity; what the limits of their authority are and who to escalate to when these limits are exceeded.
<p>Scope of competence</p> <ol style="list-style-type: none"> Operations to be carried out within the limitations of the ABS and trolley equipment Operations to be performed include: <ul style="list-style-type: none"> moving; sampling; recording; Sampling can be: <ul style="list-style-type: none"> measured; stored; transported; Additional PPE can include: <ul style="list-style-type: none"> gloves; goggles; ear defenders. 	<p>Evidence Requirements</p> <p>Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, h, i, j and k using methodology below.</p> <ul style="list-style-type: none"> observation; authenticated work experience evidence; performance reports; relevant activity records.

E.26 PTMP20 Safe use of rail sprayer and trolley equipment

E.26.1 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use rail sprayer and trolley equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.26.2 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use rail sprayer and trolley equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The rail sprayer detailed in this unit relates to those specific to the use of painting rails for the purposes of temperature control

All other paint sprayers are out of scope of this competence

NOTE where other types of paint sprayer are required, minimum levels of competence are defined and can be checked through ICATS. Refer to NR/L3/CIV/040 and NR/GN/CIV/002

The scope of this unit includes examples of rail sprayer and trolley equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.26.3 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate paint sprayer and trolley equipment. The candidate shall have to show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare paint sprayer and trolley equipment for use on the infrastructure

Element 2: Operate paint sprayer and trolley equipment safely and effectively and effectively achieve the required engineering outcome

E.26.4 Initial assessment, maintenance of competence and competence renewal

E.26.4.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for rails sprayer and trolley equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.26.4.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of rail sprayer and trolley equipment activities.

This should include confirmation that:

- the competence has been used on at least four (4) 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 **4.10**.

E.26.4.3 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 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 rail sprayer and trolley equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of rail sprayer and trolley equipment continues to be used safely and correctly in line with the performance statements.

E.26.5 Results

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/001 Competence Management Systems process and in line with the employers company procedures.

Safe use of rail sprayer and trolley equipment

Element 1: Prepare rail sprayer and trolley equipment for use on rail on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. assemble equipment in correct sequence;
- e. carry out the necessary preparation and checks to confirm equipment is in line with work requirements;
- f. protect themselves and others from risks that arise when preparing the equipment for use;
- g. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- h. communicate effectively with all relevant parties and in line with procedures;
- i. follow recording, reporting and escalation procedures.

Scope of competence

1. Preparation and checks include:

<ul style="list-style-type: none"> ▪ supporting equipment; ▪ braking mechanisms and functionality; ▪ position of equipment; 	<ul style="list-style-type: none"> ▪ service and brake test date; ▪ checking for damage; ▪ fluid levels; ▪ safety devices.
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2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test;
3. They are concerned with establishing:

<ul style="list-style-type: none"> ▪ certification validity; ▪ relevant documentation ▪ wear and defects; ▪ suitability for task; ▪ quarantine requirements; ▪ fuel and lubricant levels; 	<ul style="list-style-type: none"> ▪ security of components; ▪ suitability of power source; ▪ suitability of associated equipment <ol style="list-style-type: none"> a. supporting equipment; b. clamps; c. brake handles
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Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type and quantities of accessories and materials are required for the particular equipment type;
3. how to confirm that the accessories are correctly fitted to the equipment;
4. what equipment care and control procedures apply to rail sprayer and trolley equipment;
5. how to determine whether the rail sprayer and trolley equipment is suitable for the task required;
6. what risks associated with the assembly and preparation of the rail sprayer and trolley equipment and how this can affect the safety of others;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to hydraulic power sources;
9. who to communicate with and at what stage when undertaking preparation checks;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Performance Evidence

Performance evidence shall be collected of the candidate completing performance statements b, c, d and e, f using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

Safe use of rail sprayer and trolley equipment on rail

Element 2: Operate rail sprayer and trolley equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the rail sprayer and trolley equipment is set up and ready for use;
- c. confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work;
- d. operate the rail sprayer and trolley equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. confirm, where applicable, the rail sprayer equipment is secure before moving;
- g. position equipment and use rail spraying equipment safely;
- h. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- i. clean equipment thoroughly on conclusion of the activities and dispose waste materials in line with company and environmental requirements
- j. shut down the equipment to a safe condition on conclusion of the activities;
- k. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications, documentation and risk control sheets relate to the equipment;
2. how to use the rail sprayer and trolley equipment safely and in line with requirements;
3. what appropriate rail spraying methods and techniques are applied;
4. equipment operating and care procedures as defined by Network Rail or the manufacturer;
5. what risk control procedures apply when moving and/or spraying
6. how to limit the impact of their work on the safety of others people and assets;
7. how to clean the equipment and how to dispose of the waste materials
8. who to communicate with and at what stage when undertaking the activity;
9. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations to be carried out within the limitations of the rail sprayer and trolley equipment
2. Operations to be performed include:
 - moving;
 - spraying.
3. Additional PPE can include:
 - gloves;
 - goggles;
 - ear defenders.

Evidence Requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, h, i, j and k, using methodology below.

- observation;
- authenticated work experience book entries;
- performance reports;
- relevant activity records.

E.26.6 PTMP21 Safe use of OLE winching equipment

E.26.7 Purpose

The purpose of this competence is to define the competence requirements for candidates required to prepare and use OLE winching equipment safely and effectively on the Network Rail managed infrastructure or on Network Rail owned or leased property.

E.26.8 Scope

This competence unit applies in all circumstances where any individual is required to prepare and use OLE winching equipment on Network Rail managed infrastructure or on Network Rail owned or leased property.

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

The scope of this unit includes examples of OLE winching equipment as listed on CTM/220a Portable, Transport and/or Mobile Plant Equipment.

E.26.9 Competence Unit

To prove competence in this unit, the candidate shall demonstrate their ability to prepare and operate OLE winching equipment. The candidate shall have to show they can follow recording, reporting and escalation procedures.

This competence unit comprises two elements

Element 1: Prepare OLE winching equipment for use on the infrastructure

Element 2: Operate OLE winching equipment safely and effectively and effectively achieve the required engineering outcome

E.26.10 Initial assessment, maintenance of competence and competence renewal

E.26.10.1 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 which complies with the appropriate procedures.
- a test of the knowledge essential for OLE winching equipment. (As indicated in this unit and detailed in applicable documents and procedures).

E.26.10.2 Maintenance of competence

Employers shall have systems in place to demonstrate the continued competence of persons required to undertake Safe use of OLE winching equipment activities.

This should include confirmation that:

- the competence has been used on at least three (3) 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 **4.10**.

E.26.10.3 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 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 OLE winching equipment has been retained. (As indicated in this unit and detailed in applicable documents and procedures); **and**
- the candidate continues to demonstrate the use of OLE winching equipment safely and correctly in line with the performance statements.

E.26.11 Results

Results of any training, assessments and reviews shall be recorded as part of the requirements as described in NR/L2/CTM/001 Competence Management Systems process and in line with the employers company procedures.

PTMP21 Safe use of OLE winching equipment

Element 1: Prepare OLE winching equipment for use on the infrastructure

Performance statements

Candidates shall be able to:

- a. work safely at all times, complying with health and safety and other relevant regulations and guidelines;
- b. obtain all the required equipment and materials and confirm that it is in a safe and usable condition;
- c. confirm that the equipment being prepared is suitable for the work;
- d. carry out the necessary preparation and checks to confirm equipment in line with work requirements;
- e. protect themselves and others from risks that arise when preparing the winching equipment for use;
- f. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- g. communicate effectively with all relevant parties and in line with procedures
- h. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. what equipment preparation methods and procedures apply;
2. how to determine what type of accessories are required for the particular equipment type;
3. how to confirm that the accessories are correctly fitted to the equipment;
4. what equipment care and control procedures apply to winching equipment;
5. how to determine whether winching equipment is suitable for the task required;
6. what risks associated with the preparation of winching equipment and how this can affect the safety of others and assets;
7. how to complete the necessary checks and what action to take if a problem occurs;
8. what safety precautions need to be taken when fuelling or connecting to electrical or hydraulic power sources;
9. who to communicate with, and at what stage when undertaking preparation checks;
10. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Preparation and checks include:
 - checking rating (Safe working load);
 - condition of cables, wires and hooks;
 - accessories;
 - position of equipment;
 - service date;
 - checking for damage;
 - fluid levels;
 - safety devices;
2. The equipment safety and preparation checks shall be conducted by:
 - visual checks;
 - physical checks;
 - safety device test.
3. They are concerned with establishing:
 - certification validity;
 - lift plans and other relevant documentations
 - wear and defects;
 - suitability for task;
 - quarantine requirements;
 - fuel and lubricant levels;
 - security of components;
 - suitability of power source;
 - suitability of associated equipment;
 - accessories.

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d and e, using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.

PTMP21 Safe use of OLE winching equipment

Element 2: Operate OLE winching equipment safely and effectively to achieve the required engineering outcome

Performance 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;
- b. confirm that the winching equipment is set up and ready for use;
- c. confirm that suitable arrangements are in place to maintain the safety of others who maybe affected by the work;
- d. operate the winching equipment within the defined parameters;
- e. operate the controls safely and correctly in line with operational procedures;
- f. attach the appropriate handling equipment to the load using approved methods to eliminate slippage;
- g. confirm the load is balanced and secure before moving;
- h. position and release the load safely;
- i. deal promptly and effectively with problems within their control and report those that cannot be resolved;
- j. shut down the equipment to a safe condition on conclusion of the activities;
- k. follow recording, reporting and escalation procedures.

Knowledge statements

Candidates shall have knowledge and understanding of:

1. which engineering specifications, documentation and risk control sheets relate to winching equipment;
2. which accessories to use for various applications;
3. what appropriate winching methods and techniques are applied;
4. operating and care procedures as defined by Network Rail or the manufacturer;
5. quality control procedures when winching;
6. how to limit the impact of their work on the safety of other people and assets;
7. who to communicate with and at what stage when undertaking the activity;
8. what the limits of their authority are and who to escalate to when these limits are exceeded.

Scope of competence

1. Operations are to be carried out within the limitations of the winching equipment
2. Operations to be performed include:
 - winching;
3. Loads can be:
 - balanced;
 - unbalanced;
 - symmetrical;
 - asymmetrical;
4. Additional PPE can include:
 - Gloves
 - Goggles
 - Ear defenders

Evidence requirements

Performance evidence shall be collected of the candidate completing performance statements b, c, d, e, f, g, h, i, j and k using methodology below.

- observation;
- authenticated work experience evidence;
- performance reports;
- relevant activity records.