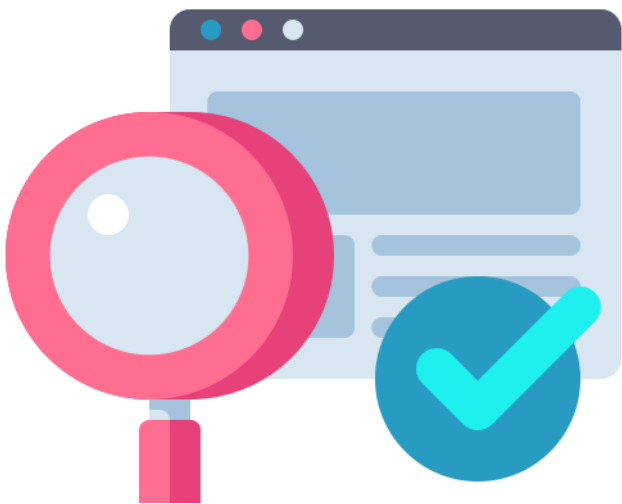




openawards

EPA Handbook

*ST0495: Rail and
Rail Systems
Engineer*



EPA HANDBOOK

Version history

Version	Date	Change(s) made	Section(s)	Publication source(s)
0.1	30/11/2022	Input draft content	All	Dev team
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About Open Awards

Set up in 1981 as Open College Network North West Region (OCNNWR) and now trading as Open Awards, we have been in business for 40 years. During that time, we have helped thousands of learners get started on the education ladder, return to learning, achieve qualifications to help their careers and progress into further and higher education.

We were the first awarding organisation to design qualifications and courses based on credit accumulation so that learners could achieve in “bite sized” chunks. We designed the units and qualifications that became the basis of the Qualification and Credit Framework (QCF).

We are more than just another Awarding Organisation. Uniquely, we have deep roots in the education sector as forward-thinking organisations, FE Colleges and Local Authorities, created Open College Networks (OCNs) to promote education and achievement. We have a governance structure, which is drawn from the people who use our services – our providers and centres – so that we can truly say we are “of the sector and for the sector”. Our purpose is to meet the needs of our provider organisations and their learners. We are a not-for-profit organisation and a registered charity and we use our funds to invest in our products and services to support the very organisations that use our products.

Open Awards qualifications are approved by the regulators (Ofqual in England and CCEA in Northern Ireland) and are designed to meet the needs of learners and employers. The range of qualifications we offer is designed to meet the aspirations of learners who are seeking a stepping stone to their career, returning to learning or wishing to progress and build their skills and experience. We are constantly adding to our qualification portfolio to ensure that it is fresh and up to date.

We are delighted to have expanded our scope, becoming an end-point assessment organisation (EPAO) for a growing number of apprenticeship standards in England approved by the Institute for Apprenticeships and Technical Education (IfATE). Our EPAO number is: **EPA0565**

Occupational overview

A Rail and Rail Systems Engineer works as part of a multi-disciplinary team, but with personal responsibility and accountability for projects related to their specialist area. They can work in multiple railway worksites or in technical offices. They have a strong understanding of how the railway works as a whole and are able to assess the impact of their work and its interfaces with other teams. This includes an understanding of conventional rail or high-speed rail, or both.

They are responsible for the provision of rail specific technical engineering knowledge relating to a specific aspect of the railway. Specialist areas include rail specific civil engineering, rail track, rail signalling and control, rail systems & integration, rail traction and rolling stock, rail telecommunications, network and digital and rail electrical, mechanical and building services.

The overarching role of all Rail & Rail Systems Engineers is to ensure the railway runs smoothly on a day-to-day basis and to provide rail specific engineering knowledge across their own organisation to ensure this is the case. This includes supporting work relating to the integrated safe design, construction, installation, maintenance, renewal, or decommissioning of assets and equipment, to provide a safe and reliable railway.

Key duties can include:

- Planning, processing, maintenance and production of railway assets and equipment.
- Rail specific input to operational processes
- Taking proactive actions and decisions to avoid railway asset, equipment, process and systems failures within their area of influence.
- Working across the organisation to identify areas for rail system improvement.
- Supporting or supervising individuals and teams in the delivery of Rail Engineering and Rail System tasks within their designated discipline
- Providing and sharing specialist knowledge across the organisation and ensuring that the impact to the railway of any changes is identified.

Further details on the knowledge, skills and behaviours associated within the occupational standard are in Appendix 1 and are also accessible on the IfATE website¹.

¹ <https://www.instituteforapprenticeships.org/apprenticeship-standards/rail-and-rail-systems-engineer/>

Standard information

Level: 5

Reference: ST0495

Approved for delivery: 24 September 2018 (updated: 26 January 2023)

Route: Engineering and manufacturing

Typical duration to gateway: 24 months (this does not include the EPA period)

Employers involved in creating the standard: Network Rail, Alstom Transport UK Limited, DEG Signal Ltd, Hitachi Rail Europe Ltd, Northern Rail, Siemens Mobility, Thales, Transport for London, Amey, Arup, Babcock International Group, Bombardier, Morson, Northern Rail, Siemens Rail Automation Holdings Ltd, VolkerRail Ltd

External Quality Assurance Provider: Ofqual

Entry requirements

Individual employers will set the selection criteria for their Apprenticeships in conjunction with their provider. Apprentices without Level 2 English and maths will need to achieve this level prior to taking the end point assessment. For those with an education, health and care plan or a legacy statement, the apprenticeship's English and maths minimum requirement is Entry Level 3, and British Sign Language qualifications are an alternative to English qualifications for those whom this is their primary language.

Progression opportunities

Apprentices who successfully complete their Rail and Rail Systems Engineer Apprenticeship are likely to attain, or be able to work towards roles such as: Track Engineer, Rail Civil Engineer, Asset Engineer, Rail Systems Integration Engineer, Rail Project Engineer, Approvals and Certification Engineer, Lead Signal Design Engineer, Signalling & Control Systems Engineer, Telecomms Engineer, Traction and Rolling Stock Engineer, Rail Electrification Engineer, Rail Mechanical Engineer and Rail Building Services Engineer.

Professional recognition

The experience gained and responsibility held by the apprentice on completion of the apprenticeship partially contributes to the requirements for IEng.

On-programme requirements

A summary of the on-programme requirements for each apprentice is outlined below.

- Training to develop the knowledge, skills and behaviours (KSBs) of the occupational standard.
- Training towards English and mathematics Level 2, if required.
- Compilation of a portfolio of evidence to outline apprentices' work during their apprenticeship programme, mapped to the **KSBs from the occupational standard.**

Registration, gateway and booking

Registration with Open Awards

Registration is the point at which an employer signals that it has selected Open Awards as their end-point assessment provider. Employers are encouraged to register their apprentices with Open Awards, through the training provider, as soon as possible. Our EPAO number is: **EPA0565**

Registrations can be made by providers via the EPA Section of Open Awards' Secure Portal. Early registrations enable Open Awards to initiate early dialogue to ensure arrangements can be planned, such as IEPA availability, to ensure end-point assessment is delivered as smoothly as possible in a timescale that supports the employer's planned gateway date. It also enables the training provider to access a range of practice and preparation materials, so they and the employer can support the apprentice to prepare for end-point assessment.

Please note that Open Awards are only able to accept registrations from training providers who are currently on the Register of Approved Training Providers (RoATP).

In line with the Education & Skills Funding Agency's (ESFA) requirements, the employer must inform Open Awards of the planned gateway and end-point assessment dates at least three (3) months in advance.

Gateway

Gateway is the point at which the employer reviews their apprentice's knowledge, skills and behaviours, and formally confirms the apprentice has reached occupational competency, completed all the mandatory elements of their apprenticeship programme and are ready for end-point assessment. The training provider may support the employer in making this decision, but the decision is made by the employer, with the apprentice also confirming they are ready for end point assessment.

End-point assessment must be completed by an independent End-point Assessment Organisation (EPAO) selected by the employer, such as Open Awards, from the ESFA's Register of End Point Assessment Organisations (RoEPAO).

The end-point assessment period should only start and the end-point assessment arrangements confirmed, when:

- the employer is satisfied that the apprentice is consistently working at or above the level of the occupational standard
- all of the pre-requisite gateway requirements for EPA have been met and that they can be evidenced to Open Awards

For this standard, end-point assessment must be completed within a period lasting a maximum of sixteen (16) weeks, beginning when the apprentice has met the end-point assessment gateway requirements. The EPA must be completed over a maximum total

assessment time of 14 weeks and one hour (i.e. 14 weeks for the Workplace Project and one hour Vocational Competence Discussion), within a 16-week period starting once the apprentice has met the Gateway requirements.

Gateway requirements

The training provider must provide Open Awards with all required evidence to enable Open Awards to undertake the necessary gateway checks. This evidence includes:

- fully completed and signed Gateway agreement and authenticity form.
- Apprentices without English and mathematics at Level 2 must achieve Level 1 English and mathematics and Level 2. The ESFA maintains a list of current and prior qualifications accepted as meeting the minimum English and maths requirements for apprenticeships at Level 2 and above. The most current list can be found on the ESFA website². For those apprentices with an education, health and care plan or a legacy statement the apprenticeships English and mathematics minimum requirement is Entry Level 3 and British Sign Language qualifications are an alternative to English qualifications for whom this is their primary language.
- for this standard, apprentices are also required to have completed a portfolio of evidence.

Open Awards cannot accept end-point assessment booking requests until the gateway checks have been satisfactorily completed, so failure to submit all the necessary information or evidence will delay this process. Open Awards will contact the training provider if the information or evidence is missing or insufficient, so that this can be rectified as quickly as possible. Open Awards aims to complete gateway checks **within five (5) working days** from receipt of the gateway declaration and authenticity form, subject to provision of all necessary information and ancillary evidence.

Once gateway checks have been successfully completed, Open Awards will confirm provisional bookings or schedule subsequent bookings.

Booking

Bookings can be made by providers via the EPA Section of Open Awards' Secure Portal. As per ESFA guidance, Open Awards requires at least three (3) months advance notice of the potential gateway date. However, training providers may make provisional bookings at any point following Open Awards acceptance of an apprentice registration.

Open Awards will endeavour to accept and schedule bookings for end-point assessment to meet the expressed preference dates of the employer wherever possible. However, any provisional booking cannot be confirmed or scheduled by Open Awards until gateway checks have been successfully completed.

Cancelling or rescheduling a booking

Provisional bookings can be re-scheduled or cancelled by providers via the EPA Section of Open Awards' Secure Portal. Confirmed bookings **up to 10 workings days** before the assessment day can be re-scheduled at no charge. Confirmed bookings cancelled or re-scheduled with **less than 10 workings days'** notice will incur a charge in line with Open Awards fees policy².

Assessment plan version

Open Awards will undertake end-point assessment in line with the requirement of the current version of the assessment plan (version 1) or in line with IfATE directions. Training providers and employers must contact Open Awards to discuss any instance where they believe it is appropriate for assessment to be undertaken in line with a historic/ previous version of the assessment plan. Because Open Awards may need to liaise with either IfATE or the External Quality Assurance Provider to determine whether this is allowable, training providers and employers should be aware this may delay the ability of Open Awards to undertake end-point assessment until resolved.

Portfolio

The portfolio of evidence must:

- be compiled during the on-programme period of the apprenticeship
- contain evidence related to the KSBs assessed by assessment method 2: Vocational Competence Discussion supported by a portfolio of evidence
- typically contain 14 or more discrete pieces of evidence
- cover the 22 occupational duties outlined in the standard
- be submitted to Open Awards as one PDF document.

Evidence may be used to demonstrate more than one KSB. The document **ST0495- ECRS** (seen in **Appendix x, pg. xx**) can be downloaded from the Open Awards Secure Portal; this should be used to map on-programme evidence against the relevant KSB criteria demonstrated as set out in the standard. All KSB criteria should be demonstrated in the portfolio.

The portfolio will not be assessed by Open Awards, nor will Open Awards provide feedback on evidenced work, but will be used by the IEPA to prepare for the apprentice's interview.

The portfolio can be made up of a collection of evidence in a variety of formats, including written, audio and video. Sources may include:

- workplace documentation/records for tasks and projects that the apprentice has directly worked on, for example;
 - projects managed by the apprentice
 - relevant workplace policies/procedures
- witness statements

² Available on the Open Awards Secure Portal <https://portal.openawards.org.uk/Login.aspx>

- annotated photographs
- GDPR and safeguarding compliant video clips (maximum total duration 10 minutes); the apprentice must be in view and identifiable
- annotated photographs of the apprentice carrying out relevant tasks
- reports, minutes, action logs
- observations by the apprentice's manager or mentor
- feedback (managers and peers)
- performance reviews.

Mock assessment activities are not considered acceptable evidence to be included within the portfolio.

Authenticity of apprenticeship work

The evidence provided must be valid and attributable to the apprentice. The portfolio of evidence must be submitted with a statement from the employer and apprentice confirming this (form **ST0495-PAS** in **Appendix x, pg. xx**).

Apprentices must submit their portfolio to their EPAO once the Gateway process has confirmed that the portfolio of evidence is complete and ready for submission. The EPA and the Vocational Competence Discussion will be based on this.

The Portfolio of Evidence (and other Gateway evidence requirements) must be received by the EPAO within 2 weeks of the Gateway process completion. This will trigger confirmation of the EPA process and the start date for the 14-week project work window and 16-week time limit for the entire EPA, during the gateway period.

Identification checks

Open Awards requires the apprentice to present photographic identification to an Open Awards invigilator or IEPA immediately prior to each assessment on each assessment day. This is a requirement to ensure Open Awards can confirm an individual completing an assessment is the person they are claiming to be.

The following are acceptable forms of evidence of an apprentice's identification:

- a valid passport (any nationality)
- a signed UK photo card driving licence
- valid warrant card issued by HM Forces or the Police
- other photographic ID card, e.g., employee ID card (must be current employer), student ID card, travel card
- UK biometric residence permit.

Where this identification is not available to be checked, the assessment will not be allowed to commence.

Where an apprentice does not have access to the necessary identification or where the name on the identification does not match the name registered with Open Awards, the training provider must contact Open Awards to make arrangements for alternative or additional authentication checks to be made.

Data management

Open Awards has a responsibility under the Data Protection Act to ensure that learners and apprentices are informed of how their information is processed and shared.

Open Awards collects and processes personal learner information for the purpose of: registering learners and apprentices, and awarding learner and apprentice achievements; exercising its functions; and meeting its responsibilities, both statutory and otherwise.

Further information on the personal data and information shared with Open Awards and how we use it and who we share it with can be found in the Privacy Notice: Learner Information which is on the Open Awards website.

Whilst we endeavour to collect only that data for which there is a legal or sound business requirement and to ensure the integrity of the data, we strongly encourage customers to contact us if you believe any data to be incorrect.

Any concerns can be sent to Open Awards by emailing [**enquiries@openawards.org.uk**](mailto:enquiries@openawards.org.uk)

In compliance with ESFA Conditions for being on the register of end-point assessment organisations, Open Awards must retain information about the EPAs undertaken and payment received for six (6) years after the activity took place. This will include details of what assessments were undertaken, against which versions of the standard and assessment plan, when and by whom, along with assessment outcomes and evidence of the internal quality assurance of those assessments. Open Awards is also required to share end-point assessment information with the External Quality Assurance Provider to ensure they are able to undertake their regulatory role. The External Quality Assurance Provider for this standard is Ofqual.

For the purposes of the Data Protection Act and General Data Protection Regulation (GDPR) 2018, Open Awards is the data controller for personal information processed by the organisation.

Assessment

The EPA consists of two assessment methods which are individually graded.

- Assessment method 1: Workplace project (including a practical element that allows for the application and demonstration of skills in a real-life work context)
- Assessment method 2: Vocational Competence Discussion (supported by a portfolio of evidence).

Assessment preparation

Assessment specifications (Appendix 2) and assessment records (Appendices 3-8) are available to support training providers and employers post-gateway to ensure apprentices are well prepared for their EPA experience.

Order of assessment methods

The assessment methods can be delivered in any order. The result of one assessment method does not need to be known before starting the next.

Assessment window

The EPA must be completed over a maximum total assessment time of 14 weeks and one hour (i.e. 14 weeks for the Workplace Project and one hour Vocational Competence Discussion), within a 16-week period starting once the apprentice has met the Gateway requirements.

An individual EPA assessment re-sit/re-take (e.g. Vocational Competence Discussion and/or project) must be completed satisfactorily within six months of the end of the initial EPA period. After six months, apprentices must retake the entire EPA. The time limit for each method will start again and will remain as 16 weeks in total, 14 weeks for completion of the Workplace Project and 1 hour for the Vocational Competence Discussion, within a timescale agreed with the employer and Open Awards.

Assessment method 1: Workplace project (including a practical element that allows for the application and demonstration of skills in a real-life work context)

Overview

Apprentices will undertake the work-based project over 14 weeks and it will synoptically assess the apprentice's knowledge, skills and behaviours.

All project topics will be agreed in advance with Open Awards, the employer and the apprentice.

Projects must demonstrate competence against the application of the technical knowledge and skills of the specialist area, as well as the application of the following core areas of the standard:

- safe and professional working practices and keeping themselves and others safe
- contribute effectively to the delivery of engineering solutions, and delivering engineering solutions effectively
- working knowledge of problem solving, and use creative thinking and problem-solving techniques
- how teams work effectively, and collaborative working practice

The following behavioural aspects will also be covered as core:

- effective communicating and influencing
- act professionally
- promote and exhibit a self-disciplined, self-motivated and motivational approach to work
- works safely, collaboratively
- quality focused

The project can focus on an immediate or strategic long-term issue or opportunity and will contain the following (as a minimum):

- Executive summary
- Introduction and background
- Outline of the issue or opportunity
- Justification for the change
- Evidence of effective research
- Analysis of benefits and drawbacks including commercial, contractual and organisational etc.
- Analysis of risks
- Summary of the recommendations
- Consideration of legislation, regulation, industry and organisational policies, procedures and requirements
- Proposed plan for implementation and stakeholder engagement

The project is expected to draw together the learning from across the standard, including the ability to select and apply knowledge as well as identifying and interpreting complex sets of data, and presenting the proposed solution in an appropriate format. The written

report will be submitted for marking upon completion to Open Awards within 14 weeks of the workplace project brief being signed off by Open Awards.

Assessment method 2: Vocational Competence Discussion (supported by a portfolio of evidence)

Overview

The IEPA will complete a vocational competence discussion with the apprentice, assessing their knowledge skills and behaviour.

The vocational competence discussion will last 60 minutes with a +10% tolerance.

The independent assessor must ask the apprentice 7 open questions in the following areas as outlined in Annex B:

- Health and Safety
- Professional Working Practices
- Scientific, technical, engineering, mathematical and design skills
- Quality and Continuous Improvement
- Team Working
- Recruitment and Retention
- Continuous Professional Development

One question will be asked per area, with follow up questions are allowed to seek clarification.

Apprentices may refer to their portfolio when answering the questions and will be given the opportunity to evaluate their portfolio during the discussion i.e. what went well, lessons learnt and recommendations for the future projects.

Assessment conditions

The vocational competence discussion will last 60 minutes with a +10% tolerance. The discussion must take place on a one-to-one basis with the apprentice, who should be given at least one weeks' notice of the assessment date. The vocational competence discussion must be carried out in a quiet room, free from distractions.

Apprentices may bring a copy of the portfolio with them and may refer to this when answering the questions.

Authenticity of apprenticeship work

The evidence provided must be valid and attributable to the apprentice. The Portfolio Evidence Record must contain a statement from the employer and apprentice confirming this (form **ST0495-PAS**).

What to avoid

The Portfolio Evidence Record should **not** include reflective accounts or any methods of self-assessment **unless** this is part of the KSB being assessed, i.e., a KSB criterion directly indicates reflective practice knowledge and/or skills. Any employer contributions should focus on direct observation of performance (for example witness statements) rather than opinions.

Vocational competence discussion

The apprentice and the IEPA will have a two-way dialogue, allowing the apprentice to evidence the KSBs assigned to this End-point assessment method in each key area of activity outlined in the apprenticeship standard and assessment plan. The IEPA will ask a minimum of 7 open questions.

The IEPA will draw on appropriate evidence from the apprentice's portfolio to underpin the discussion. The portfolio itself will not be assessed, but it must meet a minimum level of quality to enable the professional discussion to take place.

Preparing for the vocational competence discussion

The IEPA will conduct a thorough review of the apprentice's submitted portfolio of evidence in order to plan and structure the vocational competence discussion. To do this, IEPAs will draw on the training and guidance provided by Open Awards. IEPAs will also use a question bank prepared and maintained by Open Awards. The apprentice must be given at least **5 working days'** notice of the date and time of the vocational competence discussion.

Assessment conditions

The discussion will be undertaken on a one-to-one basis between the IEPA and the apprentice and last for **60 minutes**. However, the IEPA can increase the overall time by up to 10% (i.e., **6 minutes**), but only to allow the apprentice to complete the answer they are giving. The IEPA will **not** inform the apprentice whether they have additional time or how much additional time may be available. The apprentice should **not** assume that they will receive any additional time.

The discussion can and should be undertaken remotely through video conferencing (e.g., MS Teams or Zoom). Further details of this option are available from Open Awards.

As the vocational competence discussion only involves the apprentice and the IEPA, neither the employer nor provider are required to attend.

Grading

Mapping of KSBs against assessment methods

Appendix 1 shows each assessment method and the KSBs from the apprenticeship standard that are assessed by that method. Additionally, Appendix 2 and Appendices 3-8 detail the breakdown of the KSBs assessed in each of the key areas within each EPA method and their associated grading criteria.

Grading individual assessments

Apprentices must meet all the pass criteria to gain a pass for each End-point assessment method.

Apprentices must meet all the distinction criteria to gain a distinction for each End-point assessment method.

Aggregation of individual assessment grades into an overall grade

Performance in the EPA will determine the apprenticeship grade of fail, pass, or distinction.

Apprentices who fail one or more assessment method will be awarded an overall EPA 'fail'.

In order to gain an overall EPA 'pass', apprentices must achieve a pass in all the assessment methods.

To achieve an overall EPA 'distinction', apprentices must achieve distinction in all the assessment methods. Grades from individual assessment methods should be combined in the following way to determine the grade of the EPA as a whole.

Assessment method 1 Workplace Project	Assessment method 2 Vocational Competence Discussion (supported by a portfolio of evidence)	Overall grading
Fail	Fail	Fail
Fail	Pass	Fail
Pass	Fail	Fail
Pass	Pass	Pass
Pass	Merit	Pass
Merit	Fail	Fail
Merit	Pass	Pass
Merit	Merit	Merit
Merit	Distinction	Merit
Fail	Distinction	Fail
Pass	Distinction	Pass
Distinction	Fail	Fail
Distinction	Pass	Pass
Distinction	Merit	Merit

Reasonable adjustments and Special considerations

Open Awards is committed to ensuring access to fair assessment for all learners and to protecting the integrity of assessments and qualifications.

There may be circumstances whereby arrangements need to be made to take account of particular learners' requirements in order to ensure that this is achieved without giving any unfair advantage over other learners.

The Reasonable Adjustments and Special Considerations Policy and Procedures, sets out the principles which should be followed when making decisions about adjustments to assessment. It outlines Open Awards' reasonable steps to ensure it avoids disadvantage (directly or indirectly) in line with the requirements of The Equality Act 2010 (Disability) Regulations 2010. The policy and procedures are accessible through the Open Awards Secure Portal.

Reasonable adjustments

Any action that helps to reduce the effect of a disability or difficulty that places a learner at a substantial disadvantage in the assessment situation. Reasonable adjustments are adjustments made to an assessment for a qualification so as to enable a disabled learner to demonstrate his or her knowledge, skills and understanding to the levels of attainment required by the specification for that qualification.

Reasonable adjustments must not affect the reliability or validity of the assessment outcomes but may involve:

- changing the usual assessment arrangements, e.g., allowing a learner extra time to complete an assessment activity
- adapting assessment materials e.g., by providing large print or providing materials in Braille
- providing assistance during an assessment e.g., by providing a trained signer, interpreter or a reader
- changing the assessment method e.g., from a written assessment to a spoken assessment
- using assisted technology such as screen reading or a voice activated software.

Reasonable adjustments must be approved and set in place before the assessment takes place. The work produced by the learner will be assessed in the same way as all other learners.

Where the employer and training provider believe reasonable adjustment(s) may be required, this can be identified at the registration stage. Open Awards requires a

minimum of 90 days' notice of any request for reasonable adjustments so this can be considered and where approved, arrangements made.

Special considerations

Adjustments which may be applied after an assessment where the learner has encountered exceptional circumstances that have disadvantaged them during their assessment.

The assessment plan for the apprenticeship standard defines permissible special considerations and the circumstances surrounding the apprentice's End-point assessment that fall within this definition.

Cancellations or rescheduled assessments

Cancellation by the apprentice, training provider or employer

Provisional bookings can be re-scheduled or cancelled at no charge. Confirmed bookings can be re-scheduled at no charge **up to 10 workings days** before the assessment day.

Confirmed bookings cancelled or re-scheduled with **less than 10 workings days'** notice will incur relevant costs associated to the booking.

The 5% apprentice registration fee is non-refundable regardless of withdrawal date.

Cancellation by Open Awards

In the unlikely event that a confirmed booking has to be cancelled by Open Awards, it will be rescheduled as soon as possible for a mutually convenient time. There will be no additional charges associated with the rescheduled assessment.

Confirmation of results

Assessment results will be made available to providers via the EPA Section of Open Awards' Secure Portal. Results of assessment will normally be provided to the training provider **within 10 working days** of the assessment being undertaken

Resits and Retakes

Open Awards provides resit and retake opportunities in line with ESFA requirements unless the assessment plan associated with the apprenticeship contains alternative requirements.

Apprentices who fail one or more assessment method will be offered the opportunity to take a resit or a retake. Open Awards will provide feedback alongside the result notification to all apprentices who fail an assessment method. This feedback will be provided via the training provider, normally **within 10 workings days** of the assessment taking place.

Where the result notification suggests a retake may be appropriate, the ESFA recommend the employer and training provider consider a supportive action plan that responds to the performance weaknesses identified within the feedback. This action plan should clearly state the nature and extent of the re-training and include the estimated time to prepare the apprentice for the retake. When a retake is booked, Open Awards will require confirmation from the training provider that the apprentice has received further training and is ready to be assessed.

A resit involves the apprentice attempting one or more failed assessment components again, without the need to undertake further training.

Open Awards normally require a **minimum of 10 workings days'** notice when booking a resit or a retake.

The number of resits and retakes that can be taken by an apprentice will normally be at the discretion of the employer. The ESFA recommends a limit of two (2) resits or retakes, however, more than two (2) resits or retakes may be taken if available, or unless otherwise specified or limited within the assessment plan.

Resits or retakes are only to be taken in the event of a failure. A resit or retake cannot be taken with the intention of increasing the original grade if an apprentice has passed their EPA. Therefore, feedback will not normally be provided to apprentices who achieve a pass or higher.

The maximum grade that can be achieved for a resit or retake is a pass, unless Open Awards has determined there are exceptional circumstances. Where an apprentice believes exceptional circumstances impacted on their initial assessment attempt, they must submit a formal request with supporting evidence for exceptional circumstances to

be considered, directly to Open Awards **within five (5) working days** of receiving the assessment decision.

The same IEPA who undertook the initial assessment attempt may be allocated by Open Awards to assess an apprentice's resit or retake. This may be a requirement of the assessment plan. The allocation of IEPAs to assessments will be taken by Open Awards based upon the requirements of the assessment plan or operational considerations.

An individual EPA assessment re-sit/re-take (e.g. Vocational Competence Discussion and/or project) must be completed satisfactorily within six months of the end of the initial EPA period. After six months, apprentices must retake the entire EPA. The time limit for each method will start again and will remain as 16 weeks in total, 14 weeks for completion of the Workplace Project and 1 hour for the Vocational Competence Discussion, within a timescale agreed with the employer and Open Awards.

Appeals and Complaints

Open Awards is committed to ensuring that all assessment decisions are consistent, fair and based on valid judgements made by independent IEPAs.

If an apprentice is satisfied with their result but seeks information as to why a specific grade was awarded, they can request formal feedback through their training provider. This feedback will be limited to justification of the decision and will not be developmental in nature (i.e., indicate how they may have achieved a higher grade). This feedback may take **up to 20 working days** to be provided. Further details are available from Open Awards.

If an apprentice is not satisfied with their result, they can request an enquiry about results which is an informal appeal. Open Awards will review the documentation for administrative errors and correct these if identified. An enquiry about results must be made by the apprentice **within 10 working days** of notification of the results concerned.

Alternatively, or subsequent to an enquiry about results, if an apprentice is not satisfied with their result, they may lodge an appeal. Appeals can be made by the training provider on behalf of the apprentice, but they must have the permission of the apprentice to do this.

Appeals made in respect of the final overall grade will result in a delay to the completion certificate being requested by Open Awards. For further details regarding the process, timelines and fees, please refer to Open Awards' Enquiries and Appeals Policy and Procedures which can be found on the Portal.

Completion and certification

Open Awards will issue a summary of results following successful completion of all EPA assessments. This will be issued to the apprentice via the provider and show the grade associated with each assessment, alongside the overall grade and the date this was awarded.

Open Awards will also request the apprenticeship completion certificate from the IfATE on behalf of an apprentice once they have completed their apprenticeship. As part of the gateway declaration form an apprentice is required to give Open Awards permission to do this on their behalf. Without this permission Open Awards is unable to claim the certificate.

Open Awards will request the certificate once the apprentice has received and agreed the final grade. Where the apprentice does not formally agree the final grade, Open Awards will assume it is agreed once the window for an enquiry about results or appeal is extinguished (**10 working days** from the notification of results). Requests for the certificate are then made **within 20 working days** and in most instances, sooner. IfATE normally send the completion certificate directly to the employer by recorded delivery; this can take **up to 15 working days** to arrive from the date it is requested.

Quality assurance

Internal quality assurance

Quality assurance is at the heart of Open Awards' practices and we follow suitably rigorous processes to ensure that the integrity of our assessments is maintained.

Internal quality assurance is the process of reviewing and evaluating assessment practices and decisions to ensure that:

- an identified individual is responsible for coordinating internal quality assurance processes
- there are clear and documented roles and responsibilities for all those involved
- all learners are assessed accurately, fairly and consistently to the right standard
- internal quality assurance is structured and incorporates all of the requirements set out in the assessment plan associated with the apprenticeship standard
- assessment tasks and learner work are sampled appropriately
- good practice is promoted through internal standardisation events and quality assurance meetings
- decisions are supported by full and clear records and action plans that are followed
- internal processes are transparent and regularly evaluated.

External quality assurance

External quality assurance for this apprenticeship standard is undertaken by Ofqual.

Maladministration and Malpractice

Maladministration is defined as any activity, neglect, default or other practice that results in an apprentice, training provider or employer not complying with the specified requirements for delivery of end-point assessment.

Malpractice is any act, default or practice which:

- compromises, attempts to compromise, or may compromise, the process of assessment/ examinations, the integrity of any end-point assessment activity or the validity of an assessment result or certificate, including maladministration
- damages the authority, reputation or credibility of Open Awards or any officer or employee

- involves a failure by an apprentice, training provider or employer to provide Open Awards with such necessary information as required to enable it to investigate allegations of suspected malpractice also constitutes malpractice.

An apprentice, training provider or employer must report any allegation of suspected malpractice/ maladministration to Open Awards. Failure to report allegations of malpractice/ maladministration can lead to assessment results not being conferred and certification claims not being processed, and future registrations not being accepted.

Further information is available within Open Awards' Malpractice and Maladministration Policy and Procedures, including how Open Awards will manage alleged or suspected malpractice or maladministration.

Where Open Awards is satisfied on the balance of probabilities that an allegation is substantiated, it reserves the right to impose a range of sanctions on an apprentice and/ or training provider and/ or an employer, depending on the seriousness of the situation and the risk to the interests of learners and the integrity of the end-point assessment and the effect on public confidence in Open Awards. Further information can be found within Open Awards' Sanctions Policy.

Open Awards will ensure that in most cases alleged malpractice is kept confidential between itself and those directly impacted. However, in cases of serious malpractice, Open Awards may exchange information with the regulators, other end-point assessment organisations and other appropriate authorities.

Open Awards Policies and Procedures

Current versions of the following Open Awards policies and procedures, relevant to end point assessment are accessible to training providers through the Secure Portal. Employers and apprentices can obtain copies from the relevant training provider, or can be obtained directly by contacting Open Awards.

- End Point Assessment Pricing Policy
- Reasonable Adjustments and Special Considerations Policy
- Data protection
- Enquiries and Appeals Policy and Procedures
- Complaints Policy
- Malpractice and Maladministration Policy and Procedures
- Equality and Diversity Policy
- Sanctions Policy
- Safeguarding Policy
- Conflict of Interest Policy
- Fair Access policy

In addition, the current version of the following relevant document may be obtained by training providers, employers or apprentices by contacting Open Awards directly:

- Instructions for Conducting Controlled Assessment Remotely

Open Awards recommends that local copies of policies and procedures are not made and referred to as these may not be current.

Fees and Charges

Open Awards standard fees and charges for end-point assessment, including resits and retakes are set out in the schedule of fees. The current schedule can be found on the Open Awards' website.

Support

The Open Awards website www.openawards.org.uk is the best source for general information with full listings of our qualifications, news, events, assessment information, policies, and details of our support services.

In addition, our experienced customer service team can be contacted on 0151 494 2072 or via email enquiries@openawards.org.uk.

Glossary

Assessment	The process of making judgements about the level of occupational proficiency an apprentice can demonstrate when measured against the knowledge, skills and behaviours set out in the standard.
Assessment Criteria	Assessment criteria describe what a learner should be able to do in order to demonstrate competence (i.e., pass).
Authentic	Evidence must be the apprentice's own work.
Completion certificate	The certificate issued by IfATE which demonstrates an apprentice has successfully completed their apprenticeship.
Diversity	Acknowledging that each individual is unique and recognising individual differences, e.g., culture, ability, gender, race, religion, wealth, sexual orientation, or any other individual characteristic.
EQA	External Quality Assurance.
Equality	Fair treatment for all regardless of differences, e.g., culture, wealth, race, gender, ability, sexual orientation or any other group characteristic.
Evidence	How an apprentice demonstrates knowledge, skills or behaviour that can be used to make a judgment of achievement against criteria.
Fair	Ensuring that everyone has an equal chance of getting an objective and accurate assessment.
Gateway	The point at which the employer decides the apprentice is occupationally competent and ready to undertake end-point assessment.
Holistic	Holistic assessment is identifying how evidence can relate to and be cross referenced to other units rather than taking a unit by unit approach.
Independent assessment	Assessment decisions made by an IEPA and end-point assessment organisation who have no relationship with the apprentice, training provider or employer and therefore, have no interest in the assessment result.
Independent end-point assessor (IEPA)	The individual recruited and trained by the Awarding Organisation who assesses the apprentice during end-point assessment.
IQA	Internal Quality Assurance.
Learning Outcomes	Learning outcomes describe what an apprentice should know and understand by the end of a unit.

Reliable	Reliable evidence indicates that the apprentice can consistently perform at this level. A reliable method of assessment will produce consistent results for different IEPAs at each assessment.
Simulation	Where simulation is allowed it must replicate working activities in a realistic workplace environment. A realistic working environment is one which replicates what is likely to happen when an individual is carrying out their normal duties and activities at their employer's premises.
Sufficient	Enough evidence as specified in Evidence Requirements or Assessment Strategy.
Valid	Evidence must be relevant to the learning outcome and assessment criteria i.e., capable of measuring the knowledge or skills in question. For example, a written test cannot measure a candidate IEPA's ability to provide feedback to learners.
XAMS	The Open Awards platform used for online assessments and tests.

Appendix 1 Map of KSBs against assessment methods

Method 1: Workplace project

KSBs	Apprenticeship standard descriptor (Knowledge)
C/K1	Safe and Professional working practices
C/K2	The scientific, technical, engineering, mathematical and design principles
C/K3	How to contribute effectively to the delivery of rail specific engineering solutions
C/K4	How strategic decisions are made
C/K5	Problem solving and continuous improvement
C/K8	Approaches to partner, stakeholder and supplier relationship management within the rail industry
KSBs	Apprenticeship standard descriptor (skills)
C/S1	Keep themselves and others safe
C/S2	Apply a range of technical skill sets
C/S3	Deliver Rail & Rail Systems Engineering solutions effectively
C/S4	Provide input to technical, business planning, finance and commercial meetings
C/S5	Use creative thinking and problem solving techniques
C/S6	Lead and support single discipline teams
C/S7	Manage relationships with a range of stakeholders
KSBs	Apprenticeship standard descriptor (behaviours)
B4	Safe working practice
B5	Collaborative working
B6	A focus on quality

Rail Civils Specialist Knowledge	
RC/K1	The requirements, methods and techniques for the installation and maintenance of the track support and track foundation
RC/K2	The impact of the railway environment e.g. geotechnics, structures, tunnels, embankments, vegetation and drainage.
Rail Civils Specialist Skills	
RC/S1	Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.
RC/S2	Support and provide advice to colleagues within the Rail Civils discipline only.

Track Specialist Knowledge	
T/K1	Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.
T/K2	The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage.
Track Specialist Skills	
T/S1	Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.
T/S2	Support and provide advice to colleagues within the Track discipline only.

Signalling and Control Systems Specialist Knowledge	
SC/K1	The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.
SC/K2	Rules for the operational interfaces of the railway.
Signalling and Control Systems Specialist Skills	
SC/S1	Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.
SC/S2	Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.

Rail Systems Integration Specialist Knowledge	
RS/K1	The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes
Rail Systems Integration Specialist Skills	
RS/S1	Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.
RS/S2	Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.

Traction and Rolling Stock Specialist Knowledge	
TRS/K1	The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle
TRS/K2	The design principles used in legacy and modern rolling stock types and their rolling stock sub-systems across or within their T&RS engineering

	subject matter area(s) (which may be discipline based – e.g. Mechanical, electrical, electronic, etc. or system based – e.g. Structures, Doors, Brakes, traction, Wheel/Rail interface, etc. or a mix of both).
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Traction and Rolling Stock Specialist Skills

TRS/S1	Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.
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Telecoms, Networks and Digital Specialist Knowledge

TND/K1	The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)
TND/K2	The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)

Telecoms, Networks and Digital Specialist Skills

TND/S1	Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.
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Electrical, Mechanical or Building Services Specialist Knowledge

EMB/K1	Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment
EMB/K2	High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.
EMB/K3	Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)

Electrical, Mechanical or Building Supplies Specialist Skills

EMB/S1	Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.
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End-point Assessment Method 2: Vocational Competence Discussion (supported by a portfolio of evidence)

KSBs	Apprenticeship standard descriptor (knowledge)
C/K1	Safe and Professional working practices
C/K2	The scientific, technical, engineering, mathematical and design principles
C/K6	How teams work effectively
C/K7	How to attract, recruit, develop and retain people
KSBs	Apprenticeship standard descriptor (behaviours)
B1	Communication and influencing skills
B2	Professionalism
B3	A self-disciplined, self-motivated and motivational approach to work
B4	Safe working practice
B5	Collaborative working
B7	Continuous Professional Development

Rail Civils Specialist Knowledge	
RC/K1	The requirements, methods and techniques for the installation and maintenance of the track support and track foundation
RC/K2	The impact of the railway environment e.g. geotechnics, structures, tunnels, embankments, vegetation and drainage.
Rail Civils Specialist Skills	
RC/S1	Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.
RC/S2	Support and provide advice to colleagues within the Rail Civils discipline only.

Track Specialist Knowledge	
T/K1	Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.
T/K2	The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage.
Track Specialist Skills	
T/S1	Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.
T/S2	Support and provide advice to colleagues within the Track discipline only.

Signalling and Control Systems Specialist Knowledge

SC/K1	The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.
SC/K2	Rules for the operational interfaces of the railway.
Signalling and Control Systems Specialist Skills	
SC/S1	Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.
SC/S2	Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.

Rail Systems Integration Specialist Knowledge

RS/K1	The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes
Rail Systems Integration Specialist Skills	
RS/S1	Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.
RS/S2	Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.

Traction and Rolling Stock Specialist Knowledge

TRS/K1	The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle
TRS/K2	The design principles used in legacy and modern rolling stock types and their rolling stock sub-systems across or within their T&RS engineering subject matter area(s) (which may be discipline based – e.g. Mechanical, electrical, electronic, etc. or system based – e.g. Structures, Doors, Brakes, traction, Wheel/Rail interface, etc. or a mix of both).
Traction and Rolling Stock Specialist Skills	

TRS/S1	Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.
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Telecoms, Networks and Digital Specialist Knowledge

TND/K1	The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)
TND/K2	The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)

Telecoms, Networks and Digital Specialist Skills

TND/S1	Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.
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Electrical, Mechanical or Building Services Specialist Knowledge

EMB/K1	Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment
EMB/K2	High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.
EMB/K3	Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)

Electrical, Mechanical or Building Supplies Specialist Skills

EMB/S1	Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.
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Appendix 2 Assessment Specifications

EPA method 1: Workplace Project (including a practical element that allows for the application and demonstration of skills in a real-life work context)		Project work window: 14 weeks, post-gateway
Workplace Project		
Key Area	KSB coverage	Grading criteria
HEALTH & SAFETY	C/K1. Safe and Professional working practices	<p>Pass: Keep themselves and others safe by working safely, showing professional working practices.</p> <p>Pass: Comply with workplace health, safety & environmental practices and regulations, maintaining a safe and secure working environment including rail specific legislation, regulation (e.g. Common Safety Method Risk Assessment (CSM RA)).</p> <p>Pass: Comply with company practices, processes and procedures associated with safety in rail-related work and rail equipment.</p> <p>Pass: Challenge unsafe practice and is proactive in resolving those practices.</p> <p>Pass: Undertake and document risk assessments and hazard reviews in accordance with company procedures.</p> <p>Pass: Receptive to the needs and concerns of others, especially where related to diversity and equality and exercises responsibilities in an ethical manner.</p> <p>Pass: Applies a safety first approach for themselves and colleagues; keeps themselves and others safe.</p>
Core:	C/S1. Keep themselves and others safe B4. Safe working practice	
Specialisms:		
Rail Civils (RC)	RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation. RC/K2 The impact of the railway environment e.g. geotechnics, structures, tunnels, embankments, vegetation and drainage.	
Track (T)	T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations. T/S1 Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.	
Signalling and Control Systems (SC)	SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection. SC/S1 Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.	
Rail Systems Integration (RS)	RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes. RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.	

<p>Traction and Rolling Stock (TRS)</p>	<p>TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.</p> <p>TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.</p>	
<p>Telecoms, Networks and Digital (TND)</p>	<p>TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)</p> <p>TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.</p>	
<p>Electrical, Mechanical or Building Services (EMB)</p>	<p>EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment</p> <p>EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.</p> <p>EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.</p>	
<p>SCIENTIFIC, TECHNICAL, ENGINEERING, MATHEMATICAL and DESIGN SKILLS, AND DELIVERY OF RAIL SPECIFIC ENGINEERING SOLUTIONS</p> <p>Core:</p> <p>Specialisms:</p>	<p>C/K1. Safe and Professional working practices</p> <p>C/K2. The scientific, technical, engineering, mathematical and design principles</p> <p>C/K3. How to contribute effectively to the delivery of rail specific engineering solutions</p> <p>C/S1. Keep themselves and others safe</p> <p>C/S2. Apply a range of technical skill sets</p> <p>B4. Safe working practice</p>	<p>Pass: Use at least three forms of scientific, technical, mathematical and design skills in the project work submitted, cognisant of industry procedures, safety and quality requirements, risk and environmental impacts. These should be meaningfully applied, with their role in establishing the solution clearly explained.</p> <p>Pass: The scientific, technical, engineering, mathematical of design skills appropriate to the</p>

<p>Rail Civils (RC)</p>	<p>RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation. RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.</p>	<p>specialism and the nature of the solution should be evidenced as being considered and dismissed or considered and applied. Supporting justification of the decisions must be present.</p>
<p>Track (T)</p>	<p>T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations. T/K2 The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage. T/S1 Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.</p>	<p>Distinction: Demonstrates a broad and deep understanding of the range of skills available by explaining why some are more appropriate and applicable than others citing appropriate criteria used to inform decisions taken.</p>
<p>Signalling and Control Systems (SC)</p>	<p>SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection. SC/S1 Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.</p>	<p>Distinction: Provides evidence of anticipated technology changes and changes to rail network or systems thinking that will result in changes to business operating processes and/or procedures, showing an awareness of how different solutions may be available in future.</p>
<p>Rail Systems Integration (RS)</p>	<p>RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes. RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.</p>	
<p>Traction and Rolling Stock (TRS)</p>	<p>TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle. TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.</p>	

<p>Telecoms, Networks and Digital (TND)</p>	<p>TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)</p> <p>TND/K2 The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)</p> <p>TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.</p>	
<p>Electrical, Mechanical or Building Services (EMB)</p>	<p>EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment</p> <p>EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.</p> <p>EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)</p> <p>EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge</p>	

PROBLEM SOLVING AND CREATIVITY

Core:

**Specialisms:
Rail Civils (RC)**

Track (T)

Signalling and Control Systems (SC)

Rail Systems Integration (RS)

Traction and Rolling Stock (TRS)

Telecoms, Networks and Digital (TND)

C/K3. To contribute effectively to the delivery of rail specific engineering solutions
C/K5. Problem solving and continuous improvement
C/S3. Deliver Rail & Rail Systems Engineering solutions effectively
C/S5. Use creative thinking and problem-solving techniques
RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.
RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business
T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.
T/K2 The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage.
T/S2 Support and provide advice to colleagues within the Track discipline only
SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.
SC/K2 Rules for the operational interfaces of the railway.
SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.
RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes.
RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.
RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.
TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.
TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.
TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)
TND/K2 The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)
TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.
EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment
EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.
EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)
EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge

challenges are overcome in establishing the final solution.

Pass: Demonstrates creative thinking and how creativity will be managed and controlled, showing how safety, performance and delivery are enhanced or secured rather than put at risk.

Pass: Applies project management principles, asset, risk and quality management and assurance systems, processes and techniques.

Key Area	KSB coverage	Grading criteria
COMMUNICATION Core:	<p>C/K2. The scientific, technical, engineering, mathematical and design principles</p> <p>C/K3. How to contribute effectively to the delivery of rail specific engineering solutions</p> <p>C/K4. How strategic decisions are made</p> <p>C/K5. Problem solving and continuous improvement</p> <p>C/K8. Approaches to partner, stakeholder and supplier relationship management within the rail industry</p> <p>C/S2. Apply a range of technical skill sets</p> <p>C/S3. Deliver Rail & Rail Systems Engineering solutions effectively</p> <p>C/S4. Provide input to technical, business planning, finance and commercial meetings</p> <p>C/S5. Use creative thinking and problem solving techniques</p>	<p>Pass: Communicates the design and delivery needs and the solution showing how sustainable business benefits have been delivered.</p> <p>Pass: Ensure all aspects of the work project will be feasible, supported by reasoned and informed argument, based on realistic and practical considerations, making the design, delivery and solution a viable option.</p>
Specialisms:	<p>RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.</p> <p>RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.</p>	<p>Pass: Produce work project which demonstrates a consistent, reasoned and evidenced-based approach that is presented in a way that is logical and straightforward to follow.</p> <p>Distinction: Provide an evidence-based argument using ideas and techniques that are at the forefront of the sector.</p>
Rail Civils (RC)	<p>T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.</p> <p>T/K2 The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage.</p>	<p>Distinction: Present a solution that demonstrates insight and shows an appreciation of both the need and the company's ability to respond to the need and benefit from the solution.</p>
Track (T)	<p>T/S1 Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.</p> <p>SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.</p> <p>SC/K2 Rules for the operational interfaces of the railway.</p> <p>SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.</p>	<p>Distinction: Develop a persuasive and convincing argument based on insight and command of the subject matter.</p> <p>Distinction: Produce project recommendations identifying realistic changes that have the potential to impact the wider industry and/or society.</p>

<p>Signalling and Control Systems (SC)</p>	<p>RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes.</p> <p>RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.</p> <p>RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.</p>	
<p>Rail Systems Integration (RS)</p>	<p>TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.</p> <p>TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.</p>	
<p>Traction and Rolling Stock (TRS)</p>	<p>TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)</p> <p>TND/K2 The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)</p> <p>TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.</p>	
<p>Telecoms, Networks and Digital (TND)</p>	<p>EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment</p> <p>EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.</p> <p>EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)</p> <p>EMB/S1</p>	

Electrical, Mechanical or Building Services (EMB)	Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.	
QUALITY CONTROL AND ASSURANCE Core:	B6. A focus on quality	Pass: Incorporate design, process of development and the solution which are supported by an approach to quality that distinguishes between control and assurance and that is supported by evidence justifying the choices made.
Specialisms:	RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.	
Rail Civils (RC)	RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business. RC/S2 Support and provide advice to colleagues within the Rail Civils discipline only.	Pass: Demonstrates compliance with corporate policies including sustainability, ethics, equality and diversity, and how to constructively challenge non-compliance.
Track (T)	T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations. T/K2 The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage. T/S2 Support and provide advice to colleagues within the Track discipline only.	Pass: Demonstrate safety, quality of outcome and performance of solution considerations that are used as factors in influencing decisions about quality control and assurance
Signalling and Control Systems (SC)	SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection. SC/K2 Rules for the operational interfaces of the railway. SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.	
Rail Systems Integration (RS)	RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts. TRS/K1	

<p>Traction and Rolling Stock (TRS)</p>	<p>The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle. TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.</p>	
<p>Telecoms, Networks and Digital (TND)</p>	<p>TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems) TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.</p>	
<p>Electrical, Mechanical or Building Services (EMB)</p>	<p>EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis. EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems) EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge</p>	
<p>STAKEHOLDER RELATIONSHIPS Core:</p>	<p>C/K8. Approaches to partner, stakeholder and supplier relationship management within the rail industry</p> <hr/> <p>C/S7. Manage relationships with a range of stakeholders</p>	

Pass: Demonstrate an approach to stakeholder engagement that is built on professional working relationships and is clear about when, what and how information needs to be communicated to secure the necessary stakeholder support.

Pass: Demonstrates the need to engage internal as well as external stakeholders, and describes how they will deal with supply chain,

	B5. Collaborative working	contractor and any other stakeholders necessary for the successful implementation of the solution within their specialist area.
PROFESSIONALISM AND COLLABORATION Core:	C/K8. Approaches to partner, stakeholder and supplier relationship management within the rail industry	Pass: Demonstrate a level of autonomy, which shows the ability to plan, organise, carry out work to plan, time and resource, knowing when to collaborate and consult.
Specialisms: Rail Civils (RC) Track (T)	RC/S2 Support and provide advice to colleagues within the Rail Civils discipline only.	Pass: Take steps to reassure those dependent on them and their inputs and outputs.
Signalling and Control Systems (SC)	T/S2 Support and provide advice to colleagues within the Track discipline only.	Distinction: Demonstrate a high degree of autonomy and their work and collaborative efforts reflect positively on their profession / occupation, their employer and the rail industry.
Rail Systems Integration (RS)	SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.	
Traction and Rolling Stock (TRS)	RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.	
Telecoms, Networks and Digital (TND)	TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	
Electrical, Mechanical or Building Services (EMB)	TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.	
DECISION MAKING Core:	EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.	
Specialisms: Rail Civils (RC)	C/K4. How strategic decisions are made	Pass: Demonstrate self-discipline and collaboration recognising the limits of their authority and how and when to involve others in decisions.
	B4. Safe working practice	
	RC/S2 Support and provide advice to colleagues within the Rail Civils discipline only.	

Track (T) Signalling and Control Systems (SC) Rail Systems Integration (RS) Traction and Rolling Stock (TRS) Telecoms, Networks and Digital (TND) Electrical, Mechanical or Building Services (EMB)	T/S2 Support and provide advice to colleagues within the Track discipline only.	Distinction: Demonstrate collaboration that shows consultation across a range of stakeholders to inform strategic decision making, both at an individual and collective level.
	SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.	
	RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.	
	TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	
	TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.	
	EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.	
TEAM WORKING Core: Specialisms: Rail Civils (RC) Track (T) Signalling and Control Systems (SC) Rail Systems Integration (RS)	C/K8. Approaches to partner, stakeholder and supplier relationship management within the rail industry	Pass: Demonstrate active participation and engagement in team. Pass: Provide positive contribution in both leadership and support roles. Distinction: Demonstrate empathy, support, clear consultative and decisive behaviours towards others, while meeting targets and commitments and giving assurance to internal and external customers that they have fulfilled their responsibilities.
	C/S4. Provide input to technical, business planning, finance and commercial meetings	
	C/S5. Use creative thinking and problem solving techniques	
	B5. Collaborative working	
	RC/S2 Support and provide advice to colleagues within the Rail Civils discipline only.	
	T/S2 Support and provide advice to colleagues within the Track discipline only.	
	SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.	
	RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.	

Traction and Rolling Stock (TRS)	<p>TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.</p>	
Telecoms, Networks and Digital (TND)	<p>TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.</p>	
Electrical, Mechanical or Building Services (EMB)	<p>EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.</p>	

EPA method 2: Vocational Competence Discussion (supported by a portfolio of evidence)		60 minutes (+6 mins at IEPAs discretion)
KSB group	KSB criteria	Grading criteria
HEALTH AND SAFETY Core: Specialisms: Rail Civils (RC) Track (T) Signalling and Control Systems (SC) Rail Systems Integration (RS) Traction and Rolling Stock (TRS)	C/K1. Safe and Professional working practices	Pass: Provide two different work examples distinguishing between safe and unsafe, good and bad practice. This will involve clearly identifying and articulating the key risks, their monitoring, mitigation or control in both examples given. At least one example must be drawn from the specialist area.
	B2. Professionalism	
	B4. Safe working practice	
	RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.	
	RC/K2 The impact of the railway environment e.g. geotechnics, structures, tunnels, embankments, vegetation and drainage.	
	RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.	
	T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.	
	T/S1 Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.	
	SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.	
	SC/S1 Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.	
	RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes.	
	RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.	
	TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.	
	TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	

Telecoms, Networks and Digital (TND)	TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)	<p>Pass: Explain what professional working practices are, illustrating their answer with examples from their own work using two examples. They must directly tie in the importance of the professional working practice to the work completed. (At least one example must be drawn from the specialist area).</p> <p>Distinction: Reference and discuss the impact of not following professional practice, referencing the potential consequences and risks.</p>	
	TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.		
	Electrical, Mechanical or Building Services (EMB)		EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment
			EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.
EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.			
PROFESSIONAL WORKING PRACTICE Core:	C/K1. Safe and Professional working practices		<p>Pass: Explain what professional working practices are, illustrating their answer with examples from their own work using two examples. They must directly tie in the importance of the professional working practice to the work completed. (At least one example must be drawn from the specialist area).</p> <p>Distinction: Reference and discuss the impact of not following professional practice, referencing the potential consequences and risks.</p>
	B2. Professionalism		
	B3. A self-disciplined, self-motivated and motivational approach to work		
	B4. Safe working practice		
Specialisms: Rail Civils (RC)	RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.		
	RC/K2 The impact of the railway environment e.g. geotechnics, structures, tunnels, embankments, vegetation and drainage.		
	RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.		
Track (T)	T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.		
	T/S1 Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.		
Signalling and Control Systems (SC)	SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.		
	SC/S1 Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.		
	SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches		

Rail Systems Integration (RS)	RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes.	
	RS/S1 Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.	
Traction and Rolling Stock (TRS)	TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.	
	TRS/K2 The design principles used in legacy and modern rolling stock types and their rolling stock sub-systems across or within their T&RS engineering subject matter area(s) (which may be discipline based – e.g. Mechanical, electrical, electronic, etc. or system based – e.g. Structures, Doors, Brakes, traction, Wheel/Rail interface, etc. or a mix of both).	
	TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	
Telecoms, Networks and Digital (TND)	TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)	
	TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.	
Electrical, Mechanical or Building Services (EMB)	EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment	
	EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.	
	EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)	
	EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.	

<p>SCIENTIFIC, TECHNICAL, ENGINEERING, MATHEMATICAL AND DESIGN PRINCIPLES, AND DELIVERY OF RAIL SPECIFIC ENGINEERING SOLUTIONS</p> <p>Core:</p> <p>Specialisms: Rail Civils (RC)</p> <p>Track (T)</p> <p>Signalling and Control Systems (SC)</p> <p>Rail Systems Integration (RS)</p>	<p>C/K2. The scientific, technical, engineering, mathematical and design principles</p> <hr/> <p>RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.</p> <p>RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.</p> <p>T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations</p> <p>T/K2 The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage.</p> <p>T/S1 Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.</p> <p>SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.</p> <p>SC/S1 Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.</p> <p>RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes.</p> <p>RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.</p>	<p>Pass: Identify and explain three scientific, technical, engineering, mathematical or design principles in application within both rail generally and specialism. Two of the principles in application must be in their specialist area and one example must be more generic. Each must be supported by illustration of the principles in practice drawn from their portfolio of evidence demonstrating a good understanding of the principles in application.</p> <p>Pass: The contribution will be evidence-based and the response to follow up questions or challenge handled confidently.</p> <p>Distinction: Demonstrate a clear understanding of and confidence in dealing with complex theoretical principles in application.</p> <p>Distinction: Provide clear examples of application of theory and be able to lead the discussion from the clear exposition and explanation of theory through to its application in practice.</p>
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Traction and Rolling Stock (TRS)	TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.	
	TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	
Telecoms, Networks and Digital (TND)	TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)	
	TND/K2 The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)	
	TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.	
Electrical, Mechanical or Building Services (EMB)	EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment	
	EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.	
	EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)	
	EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.	

QUALITY AND CONTINUOUS IMPROVEMENT Specialisms: Rail Civils (RC)		Pass: Demonstrate a critical analysis that reflects on the importance of both quality and continuous improvement techniques and processes. This must involve the ability to discuss the strengths, limitations and the positive impacts, as well as an understanding of why they are appropriate. (Identifying at least two important techniques and processes from their specialist area).
Track (T)	RC/K1 The requirements, methods and techniques for the installation and maintenance of the track support and track foundation. RC/S1 Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business. RC/S2 Support and provide advice to colleagues within the Rail Civils discipline only. T/K1 Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations. T/K2 The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage. T/S2 Support and provide advice to colleagues within the Track discipline only.	Distinction: Be able to offer more than two quality and continuous improvement techniques and processes, and be able to compare and contrast them. They will be able to explain the relevance and appropriateness of each for their work areas. Distinction: Demonstrate insightful contextualisation offering relevant theory, artefacts or performance that shows a commitment to quality and continuous improvement.
Signalling and Control Systems (SC)	SC/K1 The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection SC/K2 Rules for the operational interfaces of the railway. SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches	Distinction: Following critical analysis, makes judgements based on clear evidence that evaluates a range of techniques and improvements, with cognisance of new technological developments and innovation in rail and the impact on future operation of the railway.
Rail Systems Integration (RS)	RS/K1 The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes. RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.	
Traction and Rolling Stock (TRS)	TRS/K1 The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle. TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	
Telecoms, Networks and Digital (TND)	TND/K1 The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)	

Electrical, Mechanical or Building Services (EMB)	TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.	
	EMB/K1 Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment	
	EMB/K2 High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.	
	EMB/K3 Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)	
	EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.	
TEAM WORKING	C/K6. How teams work effectively	<p>Pass: Describes how teams can work effectively, what constitutes collaborative working and can justify why this is important in the occupation.</p> <p>Pass: Provides at least one well worked example showing effective team work and collaboration, explaining what enabled the team working and collaborative approach in their specialist area.</p>
Core:	B1. Communication and influencing skills	
Specialisms:	B5. Collaborative working	
Rail Civils (RC)	RC/S2 Support and provide advice to colleagues within the Rail Civils discipline only.	
Track (T)	T/S2 Support and provide advice to colleagues within the Track discipline only.	
Signalling and Control Systems (SC)	SC/S2 Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.	
Rail Systems Integration (RS)	RS/S2 Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.	
Traction and Rolling Stock (TRS)	TRS/S1 Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.	

<p>Telecoms, Networks and Digital (TND)</p>	<p>TND/S1 Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.</p>	
<p>Electrical, Mechanical or Building Services (EMB)</p>	<p>EMB/S1 Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.</p>	

<p>RECRUITMENT AND RETENTION</p> <p>Core:</p>	<p>C/K7. How to attract, recruit, develop and retain people</p>	<p>Pass: Outline how to attract, recruit, develop and retain people.</p> <p>Pass: Cover all four aspects of the criterion, by explaining the importance of each for the rail industry and pressures the industry faces.</p> <p>Distinction: Offers insight into at least two or more of the four areas showing critical awareness and a considered view of the issues as they relate to their area of the rail sector. The apprentice will confidently deal with challenges to their views.</p>
<p>CONTINUOUS PROFESSIONAL DEVELOPMENT</p> <p>Core:</p>	<p>B7. Continuous Professional Development</p>	<p>Pass: Outline the continued professional development needed to keep current in terms of knowledge and skills within the occupation CPD.</p> <p>Distinction: Demonstrate a clear appreciation of the importance of CPD for the individual as a professional, and for the employer, and can discuss the potential return on investment for both.</p> <p>Distinction: Articulate how they plan to keep their knowledge and skills up-to-date.</p>

Appendix 3 Portfolio Authentication Statement

Portfolio Authentication Statement

Authenticity & currency - The work you submit **must** have been produced by you and must be current.

Apprentice name:	Click or tap here to enter text.	
Job title/ role:	Click or tap here to enter text.	
ULN number:	Click or tap here to enter text.	
Employer:	Click or tap here to enter text.	
Standard name:	Rail and Rail Systems Engineer	
Standard code:	ST0495	
		Please tick (✓)
I confirm that the evidence I have submitted within the portfolio report is my own work.		<input type="checkbox"/>
I understand that my results may be invalidated if I have submitted work that does not belong to me and which has not been clearly acknowledged.		<input type="checkbox"/>
I confirm that the work submitted within the portfolio was created by me pre-gateway during the end-point apprenticeship period.		<input type="checkbox"/>
I confirm that the work submitted within the portfolio meets the requirements of the apprenticeship assessment plan.		<input type="checkbox"/>
Apprentice signature:	Click or tap here to enter text.	
Date:	Click or tap to enter a date.	

The work you submit must be current **and** produced by you.

All information provided on this form will be held securely and only used for the purposes provided. Full details on how we use and protect your data are available in our [Privacy Notice](#).

Open Awards tries to meet the highest standards when collecting and using personal information. Customers are encouraged to email info@openawards.org.uk if you believe any data to be incorrect, unfair, misleading or inappropriate.

Appendix 4 Portfolio Evidence and KSB Criteria Reference Sheet

Portfolio Evidence and KSB Criteria Reference Sheet

Apprentice name:	Click or tap here to enter text.
Job title/ role:	Click or tap here to enter text.
ULN number:	Click or tap here to enter text.
Employer/ Provider name:	Click or tap here to enter text.
Apprenticeship standard:	ST0495 Rail and Rail Systems Engineer

Introductory notes:

This completed evidence and criteria reference sheet should be attached to the portfolio of evidence completed by the apprentice. It is designed to enable the work collated within the portfolio to be mapped against the Knowledge, Skills and Behaviours (KSBs) needed to meet the requirements of the apprenticeship standard.

The portfolio should cover all the KSBs within the standard, one piece of evidence may support multiple KSBs.

This form is essential to ensure that:

- Relevant evidence is submitted against the required KSBs
- Allows the End-Point Assessor to clearly identify where this evidence is presented within the portfolio.

It is expected that the Evidence and KSB Criteria Reference Sheet is completed in the following style:

- **Evidence number**- The number associated to the piece of evidence presented within the portfolio.
- **Location**- Where the evidence presented is to be found within the portfolio.

For example:

Evidence mapping

Knowledge area	Reference	Statement	Evidence no	Location
Core	C/K1	Safe and Professional working practices		
	C/K2	The scientific, technical, engineering, mathematical and design principles		
	C/K3	How to contribute effectively to the delivery of rail specific engineering solutions		
	C/K4	How strategic decisions are made		
	C/K5	Problem solving and continuous improvement		
	C/K5	How teams work effectively		
	C/K7	How to attract, recruit, develop and retain people		
Rail Civils	RC/K1	The requirements, methods and techniques for the installation and maintenance of the track support and track foundation.		
	RK/K2	The impact of the railway environment e.g. geotechnics, structures, tunnels, embankments, vegetation and drainage.		
Track	T/K1	Rail track geometry requirements, effects of speed, wheel/rail interfaces, requirements/ methods/techniques for installation and maintenance of track and foundations.		
	T/K2	The influences on track layouts from particular aspects of the railway environment, e.g. geotechnical, tunnels, embankments, and drainage.		
Signalling and control systems	SC/K1	The requirements, methods and techniques for safe routing, spacing and control of trains e.g. degraded mode, fixed block signalling, and automatic train protection.		
	SC/K2	Rules for the operational interfaces of the railway.		
Rail Systems Integration	RS/K1	The end to end process for Rail Systems Integration e.g. requirements management, project interface management, safety in the railway system, assurance processes.		

Track and Rolling Stock	TRS/K1	The design and application of Traction & Rolling Stock (T&RS) engineering systems and the various generic types of legacy or modern rolling stock across the whole lifecycle.		
	TRS/K2	The design principles used in legacy and modern rolling stock types and their rolling stock sub-systems across or within their T&RS engineering subject matter area(s) (which may be discipline based – e.g. Mechanical, electrical, electronic, etc. or system based – e.g. Structures, Doors, Brakes, traction, Wheel/Rail interface, etc. or a mix of both).		
Telecoms, Networks and Digital	TND/K1	The application of telecommunication engineering systems e.g. mobile networks, fixed networks and other services delivered over networks (e.g. CCTV, customer information systems)		
	TND/K2	The operating principles in legacy or modern rail telecommunication technologies (e.g. Rail traffic management systems)		
Electrical, Mechanical or Building Services	EMB/K1	Thermal imaging, electrical clearance, wiring, bonding and construction processes relating to rail equipment		
	EMB/K2	High and low voltage distribution systems, earthing and bonding, isolation and switching, protection and control systems, power generation and circuit analysis.		
	EMB/K3	Electrical (e.g. low voltage distribution systems, emergency power supply systems) and mechanical (e.g. heating, ventilation, water, gas supply systems)		

Skills area	Reference	Statement	Evidence no	Location
Core	C/S1	Keep themselves and others safe		
	C/S2	Apply a range of technical skill sets		
	C/S3	Deliver Rail & Rail Systems Engineering solutions effectively		
	C/S4	Provide input to technical, business planning, finance and commercial meetings		
	C/S5	Use creative thinking and problem solving techniques		
	C/S6	Lead and support single discipline teams		
	C/S7	Manage relationships with a range of stakeholders		
Rail Civils	RC/S1	Apply rail civil engineering skills e.g. structural gauging to support the effective performance and operation of the business.		
	RC/S2	Support and provide advice to colleagues within the Rail Civils discipline only.		
Track	T/S1	Apply track engineering skills e.g. structural gauging to support the effective performance and operation of the business.		
	T/S2	Support and provide advice to colleagues within the Track discipline only.		
Signalling and Control Systems	SC/S1	Apply rail signalling and control systems skills e.g. independence of design, alignment to an operating railway, close out of issue logs.		
	SC/S2	Produce rail signalling and control solutions for the railway industry based on known and defined concepts and principles and new and novel approaches.		
Rail Systems Integation	RS/S1	Take responsibility for assisting in the management and development of integrated designs that shall maintain or improve on the existing safety, reliability, capability, performance, efficiency and maintainability of the railway.		
	RS/S2	Undertake systems integration engineering skills to manage project requirements e.g. use requirements software to identify conflicts.		

Traction and Rolling Stock	TRS/S1	Provide engineering input in their chosen specialist area(s) in the context of rolling stock design, application, alteration, configuration, operation, maintenance and disposal.		
Telecoms, Networks and Digital	TND/S1	Support telecommunication, network and digital engineering design, application, configuration, operation, maintenance or decommissioning and disposal.		
Electrical, Mechanical or Building Services	EMB/S1	Undertake standards review, operational practice, approvals and assessment of relevant asset types in line with technical knowledge.		

Appendix 5 Vocational Competence Discussion Assessment Record



Vocational competence Discussion Assessment Record

Apprentice name:	Click or tap here to enter text.		
Pathway:	Click or tap here to enter text.		
ULN:	Click or tap here to enter text.		
Employer name	Click or tap here to enter text.		
Apprenticeship standard:	ST0495 Rail & Rail Systems Engineer		
IEPA name:	Click or tap here to enter text.		
Location:	Click or tap here to enter text.		
Date of assessment:	Click or tap to enter a date.		
Photographic proof of identity provided:	Choose an item.	Reasonable adjustments approved	Choose an item.
Start time:	Click or tap here to enter text.	Finish time:	Click or tap here to enter text.

Introductory notes:

- The vocational competence discussion must be carried out under controlled conditions in a suitable environment.
- The IEPA must have reviewed the apprentice's portfolio evidence report in advance.
- The IEPA must introduce themselves and confirm their identity to the apprentice and employer/ representative (and others present if appropriate).
- The IEPA must agree with the employer/ representative how disruptions will be managed (e.g., alarms and emergencies) including confirming evacuation procedures.
- The apprentice must provide photographic proof of their identity before the technical interview commences. Where this is not provided, the assessment must **not** proceed.
- If at this stage the IEPA believes there is a conflict of interest, the assessment should **not** proceed and they should contact Open Awards for guidance.
- If reasonable adjustments have been requested and approved by Open Awards, the IEPA should record this and confirm that the apprentice is aware of those adjustments before starting.
- The vocational competence discussion should be recorded electronically, subject to the apprentice's agreement; where permission is not given it is permissible for another independent assessor to be present to document evidence presented.
- If the vocational competence discussion is undertaken remotely, please record the system used (e.g., Zoom, MS Teams) and the location of both the IEPA and the apprentice.
- The IEPA must confirm the apprentice is ready to be assessed and understands the assessment parameters.
- The technical interview **must last for 60 minutes** (+/-10%)
- The IEPA must ask **sufficient** questions to give the apprentice an opportunity to demonstrate **all** the criteria in the **seven (7)** key elements shown in the grading criteria table on pages 3,4 and 5.

Specialist Areas	Code
Rail Civils	RC
Track	T
Signals and control systems	SC
Rail System Integration	RSI
Traction and Rolling Stock	TR
Telecoms, Network and Digital	TND
Electrical, Mechanical or Building Services	EMB

Area of Assessment	KSBs	Pass criteria	Merit/Distinction Criteria	Outcome
		All pass criteria are required to be achieved to achieve a Pass	<p>A successful contribution at MERIT will meet the Pass Criteria in all 7 areas of assessment and meet at least 3 of the 5 Merit/Distinction criteria below.</p> <p>A successful contribution at DISTINCTION will meet the Pass Criteria in all 7 areas of assessment and meet all 5 of the Merit/Distinction criteria below.</p>	
HEALTH AND SAFETY	Core: C/K1; B2 and B4 Specialisms: RC/K1; RC/K2; RC/S1 T/K1; T/S1 SC/K1; SC/S1 RS/K1; RS/S1 TRS/K1; TRS/S1 TND/K1; TND/S1 EMB/K1; EMB/K2; EMB/S1	Provide two different work examples distinguishing between safe and unsafe, good and bad practice. This will involve clearly identifying and articulating the key risks, their monitoring, mitigation or control in both examples given. At least one example must be drawn from the specialist area.		Choose an item.

Area of Assessment	KSBs	Pass criteria	Merit/Distinction Criteria	Outcome
PROFESSIONAL WORKING PRACTICE	Core: C/K1; B2; B3 and B4 Specialisms: RC/K1; RC/K2; RC/S1 T/K1; T/S1 SC/K1; SC/S1; SC/S2 RS/K1; RS/S1 TRS/K1; TRS/K2; TRS/S1 TND/K1; TND/S1 EMB/K1; EMB/K2; EMB/K3; EMB/S1	All pass criteria are required to be achieved to achieve a Pass Explain what professional working practices are, illustrating their answer with examples from their own work using two examples. They must directly tie in the importance of the professional working practice to the work completed. (At least one example must be drawn from the specialist area).	A successful contribution at MERIT will meet the Pass Criteria in all 7 areas of assessment and meet at least 3 of the 5 Merit/Distinction criteria below. A successful contribution at DISTINCTION will meet the Pass Criteria in all 7 areas of assessment and meet all 5 of the Merit/Distinction criteria below. Reference and discuss the impact of not following professional practice, referencing the potential consequences and risks.	Choose an item.
SCIENTIFIC, TECHNICAL, ENGINEERING, MATHEMATICAL AND DESIGN PRINCIPLES, AND DELIVERY OF RAIL SPECIFIC ENGINEERING SOLUTIONS	Core: C/K2 Specialisms: RC/K1; RC/S1 T/K1; T/K2; T/S1 SC/K1; SC/S1 RS/K1; RS/S2 TRS/K1; TRS/S1 TND/K1; TND/K2; TND/S1 EMB/K1; EMB/K2; EMB/K3; EMB/S1	Identify and explain three scientific, technical, engineering, mathematical or design principles in application within both rail generally and specialism. Two of the principles in application must be in their specialist area and one example must be more generic. Each must be supported by illustration of the principles in practice drawn from their portfolio of evidence demonstrating a good	Demonstrate a clear understanding of and confidence in dealing with complex theoretical principles in application. Provide clear examples of application of theory and be able to lead the discussion from the clear exposition and explanation of theory through to its application in practice.	Choose an item.

Area of Assessment	KSBs	Pass criteria	Merit/Distinction Criteria	Outcome
		<p>understanding of the principles in application.</p> <p>The contribution will be evidence-based and the response to follow up questions or challenge handled confidently.</p>		
<p>QUALITY AND CONTINUOUS IMPROVEMENT</p>	<p>Core: None Specialisms: RC/K1; RC/S1; RC/S2 T/K1; T/K2; T/S2 SC/K1; SC/K2; SC/S2 RS/K1; RS/S2 TRS/K1; TRS/S1 TND/K1; TND/S1 EMB/K1; EMB/K2; EMB/K3; EMB/S1</p>	<p>Demonstrate a critical analysis that reflects on the importance of both quality and continuous improvement techniques and processes. This must involve the ability to discuss the strengths, limitations and the positive impacts, as well as an understanding of why they are appropriate. (Identifying at least two important techniques and processes from their specialist area).</p>	<p>Be able to offer more than two quality and continuous improvement techniques and processes, and be able to compare and contrast them. They will be able to explain the relevance and appropriateness of each for their work areas.</p> <p>Demonstrate insightful contextualisation offering relevant theory, artefacts or performance that shows a commitment to quality and continuous improvement.</p> <p>Following critical analysis, makes judgements based on clear evidence that evaluates a range of techniques and improvements, with cognisance</p>	<p>Choose an item.</p>

Area of Assessment	KSBs	Pass criteria All pass criteria are required to be achieved to achieve a Pass	Merit/Distinction Criteria A successful contribution at MERIT will meet the Pass Criteria in all 7 areas of assessment and meet at least 3 of the 5 Merit/Distinction criteria below. A successful contribution at DISTINCTION will meet the Pass Criteria in all 7 areas of assessment and meet all 5 of the Merit/Distinction criteria below.	Outcome
	Core: C/K6; B1 and B5 Specialisms: RC/S2 T/S2 SC/S2 RS/S1 TRS/S1 TND/S1 EMB/S1		of new technological developments and innovation in rail and the impact on future operation of the railway.	
TEAM WORKING		<p>Describes how teams can work effectively, what constitutes collaborative working and can justify why this is important in the occupation.</p> <p>Provides at least one well worked example showing effective team work and collaboration, explaining what enabled the team working and collaborative approach in their specialist area.</p>		Choose an item.
RECRUITMENT AND RETENTION	Core: C/K7 Specialisms: n/a	<p>Outline how to attract, recruit, develop and retain people. Cover all four aspects of the criterion, by explaining the importance of each for the rail industry and pressures the industry faces.</p>	Offers insight into at least two or more of the four areas showing critical awareness and a considered view of the issues as they relate to their area of the rail sector. The apprentice will confidently deal with challenges to their views.	Choose an item.

Area of Assessment	KSBs	Pass criteria	Merit/Distinction Criteria	Outcome
CONTINUOUS PROFESSIONAL DEVELOPMENT	Core: B7 Specialisms: n/a	All pass criteria are required to be achieved to achieve a Pass	<p>A successful contribution at MERIT will meet the Pass Criteria in all 7 areas of assessment and meet at least 3 of the 5 Merit/Distinction criteria below.</p> <p>A successful contribution at DISTINCTION will meet the Pass Criteria in all 7 areas of assessment and meet all 5 of the Merit/Distinction criteria below.</p>	.Choose an item.

Vocational Competence Discussion Fail Criteria

The apprentice will be deemed as a 'fail' for the professional discussion element if the criteria / descriptors for the 'Pass' grade are not met.

Comments on evidence presented to justify assessment decisions

Click or tap here to enter text.

Notes on grading

No. of pass criteria met	Click or tap here to enter text.
No. of merit/ distinction criteria met (out of 5)	Click or tap here to enter text.
Recommend grade awarded	Choose an item.

Developmental feedback for improvement in the event of a recommended Fail grade (to be sent by Open Awards to the apprentice and employer)				
Click or tap here to enter text.				
Recommend (please tick)	Resit	Choose an item.	Retake	Choose an item.

Confirmation

I confirm that this is an accurate record of the assessment undertaken and that the evidence presented during the assessment by the apprentice meets the requirements of the standard for authenticity, currency, sufficiency, independence, reliability and validity.

IEPA Signature:	Click or tap here to enter text.	Date:	Click or tap to enter a date.
Name of IQA (if sampled)	Click or tap here to enter text.	Date:	Click or tap to enter a date.
Signature of IQA	Click or tap here to enter text.	IQA Ref:	Click or tap here to enter text.

All information provided on this form will be held securely and only used for the purposes provided. Full details on how we use and protect your data are available in our Privacy Notice, available on request.

Open Awards tries to meet the highest standards when collecting and using personal information. Customers are encouraged to email info@openawards.org.uk if you believe any data to be incorrect, unfair, misleading or inappropriate.

Optional section - IEPA self-reflection on assessment (e.g., link to CPD plan)

Click or tap here to enter text.

Appendix 6 EPA Planning Form

EPA Planning Form



This form is applicable to any End-point assessment (EPA) activity where the assessment(s) is undertaken at a venue not directly managed by Open Awards and to which the independent End-point IEPA (IEPA) is required to attend in-person (i.e., the assessment(s) is undertaken face-to-face and not remotely).

The form must be fully completed by the provider or employer (as appropriate) and uploaded to the Open Awards Secure Portal at the same time as the assessment(s) is booked. Where remedial actions are identified, these must be addressed prior to the assessment day.

Full address of assessment venue	Click or tap here to enter text.
Location IEPA should report to upon arrival	This is important on large sites where there may be multiple receptions/ entrances. E.g., "Reception in Building 'C' on the attached map" Click or tap here to enter text.
Name of contact person at venue	This person will be responsible for meeting the IEPA on arrival, providing an appropriate health & safety briefing and must be available throughout the assessment(s) to deal with queries from the IEPA or emergencies Click or tap here to enter text.
Telephone of contact person at venue	Landline Click or tap here to enter text. Mobile Click or tap here to enter text.
Access arrangements	Is there anything the IEPA should be aware of. E.g., postcode to use with Sat Nav if different from above, car parking arrangements on/ off site, access from nearest train station Click or tap here to enter text.
Specific requirements the IEPA should be aware of	E.g., is PPE required and if so, is the IEPA expected to provide this or will it be provided for them Click or tap here to enter text.
Name of person completing this form	Click or tap here to enter text.
Job title/ position	Click or tap here to enter text.
Date form completed and uploaded to Open Awards Portal	Click or tap to enter a date.

Any other relevant information that would help the IEPA plan for the EPA.
E.g., challenging customers may be present or goods delivery is expected on the day of assessment.

Click or tap here to enter text.

	Yes/ No	If 'No', what remedial actions will be put in place to address this prior to the assessment(s)
There is a current health & safety policy in place for the venue which covers the EPA activities, the apprentice, the IEPA and other visitors undertaking quality assurance of the assessment(s)	Choose an item.	Click or tap here to enter text.
There is appropriate liability insurance in place which covers both the apprentice, IEPA and other visitors undertaking quality assurance of the assessment(s)	Choose an item.	Click or tap here to enter text.
The provider/ employer will undertake an appropriate risk assessment relevant to the assessment(s) and share this with both the apprentice and the IEPA	Choose an item.	Click or tap here to enter text.
The apprentice will have access to any Personal Protective Equipment required and received prior training in its use and storage. This PPE will be fit-for-purpose.	Choose an item.	Click or tap here to enter text.
There is adequate, accessible and signed posted first aid provision including first aid personnel and medical supplies available on the day of the assessment(s)	Choose an item.	Click or tap here to enter text.
An emergency contact at the venue will be available for duration of the EPA	Choose an item.	Click or tap here to enter text.
There are appropriate means of fire detection and raising the alarm in the event of a fire	Choose an item.	Click or tap here to enter text.
There is an emergency procedure (e.g., fire or first aid) in place which will be communicated to the apprentice and IEPA before the assessment(s) commence	Choose an item.	Click or tap here to enter text.
The venue and the assessment environment are safe and hazards appropriately managed in line with current best practice	Choose an item.	Click or tap here to enter text.
Welfare facilities (e.g., toilets, washing, eating and changing) are adequate, safe, healthy, clean and accessible to the IEPA	Choose an item.	Click or tap here to enter text.
All necessary safety notices (e.g., warning signs, fire-related, first aid) are displayed	Choose an item.	Click or tap here to enter text.
All machinery and equipment required is in good working order, meets appropriate legal standards and has been maintained by a competent person	Choose an item.	Click or tap here to enter text.

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