Job Title: Skilled Maintainer Mechanical

Purpose: As the Skilled Maintainer Mechanical, you will be responsible for the technical fault diagnosis, repair and maintenance of Nexus Plant and Distribution equipment & systems, (including but not limited to) lifts, escalators, HVAC, pumps/diverters, fire detection/suppression, security alarms, lighting emergency systems, high voltage & low voltage power supplies, automatic doors and shutters, on a roster covering 24 hours, 7 days a week, 365 days a year.

The post has been identified as a Railway Safety Critical Post

Remuneration: RBM 7

1. Principal areas of responsibility

The following list is typical of the duties, which the post holder will be required to perform. It is not necessarily exhaustive and other duties of a similar type or level may be required from time to time.

1.1 To lead a multi-skilled mechanical and electrical response to a very wide range of mechanical and electrical assets to ensure safety, reliability and performance of the asset is maximised. Direct mechanical work undertaken by their electrical colleague, including accountability for final inspection, testing and approval.

1.2 Undertake a variety of non-routine tasks and adjust work practices to meet continually changing situations and demands. Substantial requirement to implement adjusted work methods and non-routine work practices during reactive fault diagnosis and repair of specialist assets, systems, and building / facilities infrastructure.

1.3 Interpret highly complex multi-faceted technical information such as engineering diagrams, hydraulic schematic diagrams, manufacturers technical literature, specifications, schematics, and performance data to troubleshoot issues with machinery, or optimise existing equipment for improved efficiency and reliability.

1.4 Utilise highly developed technical skills in the use of calibrated specialist equipment when completing non-prescriptive asset, system, or installation fault diagnosis activities. For example, Escalator handrail repairs requiring specialised injection vulcanisation moulding of thermoplastic matrix material to precise standards and specifications.

1.5 Use of advanced methods for identifying the origins of mechanical faults and failures. These methods include half-split, emergent sequence, six point, and injection & sampling techniques. When conducting fault diagnosis on live equipment, it is crucial to implement safety-critical control measures in accordance with relevant mechanical fault diagnosis principles to ensure the safety of personnel. Additionally, when demonstrating these techniques to apprentices and less experienced staff, the skilled maintainer must take the lead in ensuring compliance with the 'Safe System of Work' and 'Life Saving Rules' based on mechanical fault diagnosis principles.

1.6 Carry out effective repair and maintenance in all aspects of electrical and mechanical work such as motors, gearbox, ropes, chains, mechanical interlocks, and fire suppression equipment on Nexus Infrastructure. Ensure that all work carried out on equipment is carried out strictly in accordance with the organisational standards and procedures that reflect the safety critical nature of the role.

1.7 To ensure that they and others under their control comply with Nexus' Safety Management System, Rules, Policies and Procedures. Including completion of dynamic risk assessments to control task specific safety risks. Through the application of generic Risk Assessments and safe systems of work, control high risk activities i.e. on track, working at height, confined spaces,

high voltage, sewage, and dirty environments frequent heavy lifting with difficult working positions.

1.8 The post holder is expected to be flexible in undertaking the duties and responsibilities attached to their job and may be asked to perform other duties, which reasonably correspond to the general character of their job and their level of responsibility.

1.9 The post holder is expected to maintain personal and professional development to meet the changing demands of the job and participate in appropriate learning and development activities.

1.10 The post holder will ensure that Nexus's Vision, Values and Behaviours are at the forefront of all that they do.

1.11 The postholder is expected to work frequently within challenging environments for sustained periods of time, e.g. outdoors in adverse weather, plant areas with high ambient temperature etc

2. Dimensions

2.1 Communication

2.1.1 The post holder will communicate using effective verbal and written reporting to interpret, clarify and support understanding at all levels of the wider business including the operational control room, line managers, supervisors, team members and junior colleagues, and directly with our customers verbally when dealing with passenger service equipment failures e.g. lift entrapments.

2.1.2 The post holder will communicate relatively complex information, using Telephone, Hand-Held Radio Devices, electronic communication, writing and verbally, to all stakeholders detailing technical faults. Will also communicate to the public, information such as how long the equipment will be out of service. The information conveyed will include reasons for failure, how long equipment will be unavailable, alternative arrangements, sources of further help and contact information.

2.1.3 The post holder will liaise with and direct third-party contractors. They will also provide support and assistance with advanced technical issues requiring external support by OEM's or other industry experts.

2.1.4 The post holder is expected to provide mentoring and practical training for others as part of their substantive role, develop and sustain positive working relationships and share technical knowledge with colleagues also across the wider business.

2.2 Initiative & Independence

2.2.1 Through the Completion of an Advanced Modern Apprenticeship, in addition to a wide variety of in-depth technical knowledge skills and experience gained over a significant tenure, the post holder will be required to use their own initiative and work unsupervised for considerable periods of time.

2.2.2 The post holder will make autonomous decisions to prioritise work and ensure safety when frequently acting as the team lead.

2.2.3 A frequent requirement to undertake fault-finding activities while working on highly complex physical assets, safety protection circuits, life protection systems & installations, buildings and premises infrastructure. Faults are largely non-routine and require the interpretation of in-depth technical information including schematic diagrams, Operation & maintenance literature, Cause & Effect matrices, and 'as installed' system information.

2.2.4 The post holder will analyse and solve difficult technical, resource and logistical problems, without frequent reference to line management, as and when they arise.

2.2.5 There may be a requirement to temporarily deputise for the next line of the management structure were applicable.

2.2.6 Provide feedback and improvements to working practices/procedures and identify remedies to problems where appropriate

2.3 Resources

2.3.1 The role requires considerable resourcefulness to overcome difficult non-routine and varied problem-solving techniques on a variety of assets under the control of Plant and Power Distribution section to ensure customer focus is a priority.

2.3.2 Operation of a large range of specialist Plant, tools and equipment to facilitate such as; working at height, heavy loads, transportation, HV Breaker injection testing, laptop programming of Fire systems, escalator and lift control and other common tasks.

2.3.3 Drives the company vehicle provided identify any defects, comply with the vehicle maintenance and repairs procedures.

2.3.4 Follow training, procedures and operational guidelines for the equipment being used.

2.3.5 Authorise stores requisitions for junior colleagues with awareness of costs within the team.

2.4 People

2.4.1 Responsible for employees performing a variety of routine tasks, including assigning work, reviewing, checking, and solving straight forward problems.

2.5.2 Responsible for practical training and mentoring of colleagues to achieve competence (e.g., lifts and escalators) and exchange technical information and skills developed in the course of routine duties.

2.4.3 Responsible when acting as the lead within their two-person team for the assignment, delivery and checking of their electrical bias colleagues' mechanical work.

2.5 Health & Safety

2.5.1 Direct responsibility for safety and general welfare of others and may be classed as Safety Critical for certain aspects of the job.

2.5.2 Responsible for the mechanical safety of themselves, colleagues, and the public when carrying out commissioning, repairs and inspections to public facing plant and machinery and when operating such machinery (e.g. lifts, escalators).

4. The Holder of this post must have access to required safety publications and personal equipment/PPE.

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EDUCATION	**E/D**
Served a recognised craft apprenticeship in a relevant mechanical discipline (1,4)	E
Hold as a minimum NVQ Level 3/ONC (or equivalent) in a mechanical discipline. (1,4)	E
Basic knowledge of health and safety (1,2)	E
Have or willing to work towards NVQ Level 3 Lift / Escalator repair (1,4)	E
Level 4, HNC, or equivalent in a mechanical discipline. (1,4)	D
SPECIFIC KNOWLEDGE	
Working knowledge of Lifts and or Escalators (1,2)	E
Working knowledge of Fire and Security systems (1,2)	D
HV working experience i.e. AP/SAP (1,2)	D
Safety critical process knowledge i.e. permit to work systems, lockout procedures etc., (1,2)	E
SKILLS	
Hold a UK current driving licence (1.4)	E
Identifiying highly complicated problems that are diverse and technically involved with the ability to make decisions without line management involvement, taking the initiative to work under own direction as part of the routine day. (1,2)	E
Excellent attention to detail and the ability to rapidly analyse information and identify/solve problems. i.e. technical drawings, electrical & mechanical schematics etc., (1,2)	E
Good standard of written and oral communication (1,2)	E
Good level of dexterity and familiarity with a wide range of common hand and power tools (1,2)	E
Computer skills and experience with common office software (1,2)	E
Demonstrate effective communication skills (1,2)	E
Able to use mobile electronic equipment (handhelds). (1,2)	E
EXPERIENCE	
Demonstrable experience of highly complicated fault diagnosis and rectification solutions, installation, commissioning of Electrical/Mechanical equipment in a service industry (1,2)	E
Railway Experience (1,2)	D
Nexus Apprenticeship or a minimum of 1 years experience following completion of external apprenticeship (1,2)	E
Supervision of others (1,2)	E

E Essential Criteria
D Desirable Criteria
Method of Assessment 1 = Application Form 2 = Interview 3 = Test/Presentation 4 = Documentary Evidence 5 = Other