

**Engineering / Wayside System Maintenance  
Technical Officer - Power Transmission & Distribution**

**THE ROLE**

Reporting to the Assistant Maintenance Manager – Power Transmission & Distribution (PT&D), the role is responsible for implementing the operation, maintenance and engineering activities for PT&D system to sustain high level of train service reliability.

The job holder will conduct fault analysis, carry out engineering studies, provide technical support, perform asset renewal, modification and improvement works for related systems to ensure that they are completed in compliance with the required safety and reliability standards. He/she is required to set up schedule and carry out recovery initiatives to achieve the target performance of PT&D system, and ensure that in approved cost.

**RESPONSIBILITIES**

- Ensure the safety and reliability of the track related interfacing works, the health and safety of the work team and contractors, and that such activities are planned and implemented in a manner that protect the safety and reliability of the operational railway.
- Manage properly the PT&D system in a coordinated, controlled, administered, implemented and supervised manner to achieve timely completion in accordance with the requirements as set in the design and the specifications.
- Be responsible for providing a safe, efficient and reliable railway operation and ensure the PT&D system and related works are completed in high quality with optimum efficiency and cost effectiveness.
- Lead a team of senior technicians and contractors to perform failure recovery, assist superiors in overseeing day-to-day maintenance activities, monitor and review asset maintenance strategies to ensure the target of reliability, availability, maintainability and safety (RAMS) as well as statutory requirements are met.
- Oversee incident handling to ensure speedy recovery by coordinating with other parties for improvement / asset replacement projects, heavy maintenance programme, and reviewing maintenance strategy and asset performance.
- Provide supports to Assistant Maintenance Managers / Managers for performing effective human resources management to ensure a skilled, healthy, safe and productive workforce is built through the process of selection, training and career development to maintain a highly cohesive team.
- Perform ad-hoc assignments and projects as assigned.

**REQUIREMENTS**

- High School or above with certificate of DSAL; Bachelor Degree in Electrical Engineering / Building Services or equivalent engineering disciplines is preferred.
- Minimum 5 years relevant working experience with 1 year at supervisory level.
- Applicants with less work experience may also be considered for appointment at lower grade.
- Good command of both written and spoken English and Chinese.
- Strong background in PT&D system maintenance.
- Holder of valid Macau driving license class B is preferred.
- Proven management skills and used to work within a tight commercial and time constraint.
- Be willing to work various shifts including weekends and holidays.

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**Engineering / Wayside System Maintenance**  
**Senior Technician - Power Transmission & Distribution**

**THE ROLE**

Reporting to the Technical Officer - Power Transmission & Distribution (PT&D), the role is responsible for implementing the operation, maintenance and engineering activities for PT&D system to sustain high level of train service reliability.

The job holder is responsible for maintenance, installation and testing activities for PT&D system to ensure that all works are completed safely, cost-effectively, timely and in compliance with specified requirements of reliability. He / She also assists in incidents recovery, installation, testing and commissioning, system cut-in at sites for related capital and revenue works, as well as supervising the team to ensure compliance with requirements in the specifications.

**RESPONSIBILITIES**

- Ensure the safety and reliability of the track related interfacing works, the health and safety of the work team, and that such activities are implemented in a manner that protect the safety and reliability of the operational railway.
- Manage properly the PT&D system in a coordinated, controlled, administered, implemented and supervised manner to achieve timely completion in accordance with the requirements as set in the design and the specifications.
- Be responsible for providing a safe, efficient and reliable railway operation and ensure the PT&D system and related works are completed in high quality with optimum efficiency and cost effectiveness.
- Lead a team of technicians and contractors to perform failure recovery and the day-to-day maintenance activities.
- Implement asset maintenance strategies to ensure that the target of reliability, availability, maintainability and safety as well as statutory requirements are met.
- Provide support and coordinate with other parties for improvement and asset replacement projects, heavy maintenance programme, and review on maintenance strategy and asset performance.
- Perform ad-hoc assignments and projects as assigned.

**REQUIREMENTS**

- Junior High School or above with certificate of DSAL; Bachelor Degree in Electrical / Building Services or equivalent engineering disciplines is preferred.
- Minimum 4 years relevant working experience or above.
- Applicants with less work experiences may also be considered for appointment at lower grade.
- Acquainted with power distribution system maintenance.
- Good command of communications and interpersonal skills.
- Ability to comprehend and write simple English & good command of written and spoken Chinese.
- Proven management skills and used to work within a tight commercial and time constraint.
- Be willing to work various shifts including weekends and holidays.

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## **Engineering / Wayside System Maintenance Technician - Signal & Communications**

### **THE ROLE**

Reporting to Senior Technician - Signal & Communications (S&C), the role is responsible for implementing the operation, maintenance and engineering activities for S&C system to sustain high level of train service reliability.

The job holder is responsible for maintenance, installation and testing activities for S&C system to ensure that all works are completed safely, cost-effectively, timely and in compliance with specified requirements of reliability. He / She also assists in incidents recovery, installation, testing and commissioning, system cut-in at sites for related capital and revenue works, as well as supervising the team to ensure compliance with requirements in the specifications.

### **RESPONSIBILITIES**

- Ensure the safety and reliability of the track related interfacing works, the health and safety of the work team, and that such activities are implemented in a manner that protect the safety and reliability of the operational railway.
- Manage properly the S&C system in a coordinated, controlled, administered, implemented and supervised manner to achieve timely completion in accordance with the requirements as set in the design and the specifications.
- Be responsible for providing a safe, efficient and reliable railway operation and ensure the S&C system and related works are completed in high quality with optimum efficiency and cost effectiveness.
- Lead a team of technicians and contractors to perform failure recovery and the day-to-day maintenance activities.
- Implement asset maintenance strategies to ensure that the target of reliability, availability, maintainability and safety as well as statutory requirements are met.
- Provide support and coordinate with other parties for improvement and asset replacement projects, heavy maintenance programme, and review on maintenance strategy and asset performance.
- Perform ad-hoc assignments and projects as assigned.

### **REQUIREMENTS**

- Minimum 2 years relevant working experience or above; fresh graduate with relevant Bachelor Degree in Electrical / Mechanical / Building Services / Electronic Engineering or equivalent engineering disciplines are welcome.
- Good command of communications and interpersonal skills.
- Ability to comprehend and write simple English & good command of written and spoken Chinese.
- Be willing to work various shifts including weekends and holidays.

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## **Engineering / Rolling Stock Maintenance Technician**

### **THE ROLE**

Reporting to Senior Technician, the role is to perform and coordinate preventive and corrective maintenance activities on LRTs and associated depot plant / Electrical & Mechanical (E&M) equipment according to maintenance schedule in order to provide a safe, reliable and effective train service and to meet the operational objectives.

### **RESPONSIBILITIES**

- Inspect, repair and replace components and equipment on LRTs and associated depot plant and E&M equipment to ensure they are properly maintained according to service standards in a timely and safely manner.
- Investigate and analyze the causes of failure and determine corresponding rectification work to ensure service availability of LRTs and other depot equipment.
- Conduct modification, tests & trials and fleet check according to instructions and requirements stated in Work Instructions and relevant engineering documents for improving service performance.
- Carry out Safety Independent Check on all safety critical items and commissioning check after contractors' work completion to ensure the operational safety.
- Complete quality documents and relevant maintenance records after work done.
- Perform shunting movement to facilitate maintenance, LRT dispatching and cleaning activities within depot.
- Conduct emergency rescue for LRTs and other rolling stocks at mainline and depot whenever required, so as to minimize impact to traffic in case of incidents.
- Perform ad-hoc assignments and projects as assigned.

### **REQUIREMENTS**

- Minimum 2 years relevant working experience or above; fresh graduate with relevant Bachelor Degree in Electrical / Mechanical / Building Services / Electronic Engineering or equivalent engineering disciplines are welcome.
- Able to comprehend and write simple English and good command of written and spoken Chinese.
- Holder of valid Macau driving license class B or C is preferred.
- Be willing to work various shifts including weekends and holidays.

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## **Engineering / Station Maintenance Technician**

### **THE ROLE**

Reporting to the Senior Technician, the role is responsible for carrying out all in-house maintenance activities and supervising / monitoring maintenance contractors' day-to-day maintenance activities in all Stations, Depot and Wayside.

He / she will work with Senior Technicians and Supervisors to implement maintenance activities in all Stations, Depot and Wayside, including Heating Ventilation and Air Conditioning (HVAC), chilled water system, cooling tower, electrical & control system; fire detection & suppression system; Low Voltage (LV) system, Uninterruptible Power Supply (UPS), lighting; plumbing & drainage; Platform Screen Door (PSD), Automatic Fare Collection System (AFC) and Access Control System (ACS) systems; Supervisory Control and Data Acquisition (SCADA) system; elevator & escalator, communication and controls in whole line, etc.

### **RESPONSIBILITIES**

- Carry out first line recovery work.
- Carry out preventive maintenance work.
- Coordinate with maintenance contractors for working on site.
- Assist or support Capital and Revenue (C&R) work.
- Arrange and conduct the re-commissioning tests.
- Ensure safe working environment of all workforces.
- Ensure maintenance work being carried out by using appropriate tools and equipment.
- Act as Competent Person and facilitate maintenance contractors to work on site safely.
- Perform ad-hoc assignments and projects as assigned.

### **REQUIREMENTS**

- Minimum 2 years relevant working experience or above; fresh graduate with relevant Bachelor Degree in Building Services / Electrical / Mechanical Engineering or equivalent engineering disciplines are welcome.
- Able to comprehend and write simple English and good command of written and spoken Chinese.
- Holder of valid Macau driving license is preferred.
- Be willing to work various shifts including weekends and holidays.

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