



## Job Description Form

### Our Purpose

To provide safe, customer-focused, integrated and efficient transport services.

**Position Title**

Mechanical Rollingstock Technician

**Level**

REA 8

**Position Number**

35227, 35228, 35229,  
35330, 35995

**Division/Directorate**

Transperth Train Operations

**Branch/Section**

Mechanical Engineering

**Effective Date**

November 2020

**Health Task Risk Assessment Category**

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### Reporting relationships

Superordinate: Rollingstock Supervisor, Level 5

Subordinates: No Direct Reports

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### Key role of this position

Maintains (by carrying out routine procedures and mechanical/electrical fault rectification procedures on safety critical components and train systems) an effective and reliable level of operating performance on the Public Transport Authority's (PTA) Australind and Prospector Rollingstock to meet with Rail Safety Standards and customer expectations.

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### Core duties and responsibilities

#### Safety

- Responsible for ensuring all activities completed on Prospector and Australind railcars are completed in a safe and economical manner as per Rail Safety Standards.
- Responsible for ensuring all service sheets are completed and the PTA's Safety and Health policy and procedures are adhered to.
- Responsible for ensuring that all operations are carried out in a safe and economical manner.
- Responsible for working to permit to work limitations whilst conducting fault finding, repair and maintenance on Rollingstock drive line systems and components.

#### Technical

- Maintains (by carrying out routine procedures and electrical/mechanical fault rectification procedures on safety critical components on a variety of Hydraulic, Pneumatic and Electrical systems) an effective and reliable level of operating performance on PTA's Australind and Prospector Rollingstock including
  - Automatic Train Protection control systems and components.
  - Mechanical and Electrical faultfinding on Rollingstock driveline components.
  - Wheel defect monitoring, investigation and rectification.
  - Driveline mechanical components and draw gear including traction rods, air bags, brake pads, wear limits and bearings.

- Engine and transmission servicing and diagnostic equipment, lighting and control systems/components including interior and exterior lighting.
- Cooling system components including radiators, Oil Coolers and Thermostats.
- HVAC mechanical and electrical control systems/components.
- Engine start systems, battery systems and transmission mechanical principles.
- AC emergency, aux shop supply and buffet circuit and control systems.
- Saloon GPO circuits including Passenger Entertainment systems and Public Address Communications.
- Radiator, Charge Air Fan and Air Compressor control systems and mechanical components.
- Cab safety systems including horn, wiper system, couplers, emergency and primary brakes, wheel slip detection and ride height sensors.
- Mechanical, electrical and pneumatic door system component servicing and repair.
- Safety systems including Fire Suppression systems, Auxiliary and Emergency Lighting systems and mechanical components.
- Vigilance and CCTV systems and components.
- Communication systems including Train Radio, Satellite Phone and Public Address Systems.
- Ensures relevant Rollingstock procedures and standards are adhered to.
- Carries out minor commissioning of new equipment, systems and technology.
- Coordinates and liaises with Transwa drivers and operations staff to provide technical support in order to rectify faults in service.
- Required to attend and provides technical support on the PTA's Network and Brookfield Rail Infrastructure to support the rectification or recovery of de-railed Rollingstock.
- Monitors systems and equipment performance including entertainment systems, engine and transmission reliability software and upgrades.
- Maintains components to specifications as advised by the Mechanical Engineering Branch and recommends improvements to exceed fleet reliability performance targets and customer satisfaction KPI's.
- Responsible for ensuring all train components booked from the stores are controlled via the register as per local material management procedures.
- Carries out reactive and non-routine inspections and repairs of Rollingstock and depot plant and equipment to minimise the impact on Rollingstock maintenance plans.
- Works to the Kewdale shift roster to ensure that technical resources are available to achieve maintenance plans.
- Assists in drafting and reviewing of technical maintenance instructions and procedures.

#### Other

- Performs other tasks and functions as are within the limits of the employee's skills, competence and training.

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### SELECTION CRITERIA

#### 1. Core Competencies

- Technical Trades experience / qualifications in Mechanical and Electrical Rollingstock Engineering Principles.
- Minimum 12 months experience in the maintenance, repair, overhaul and inspection of Prospector and Australind railcars (or similar passenger Rollingstock) safety critical components including Wheel Sets, Axel Boxes, Brakes, Suspension, Doors, Couplers, Engines and Transmissions.
- Experience of inspection and assessment of Rollingstock safety systems including Air Conditioning systems, Braking systems, Door systems, Hydraulic and Pneumatic high pressurised systems, Automatic Train Protection and Communication systems.
- Experience of inspection and fault finding of low voltage Rollingstock electrical systems including HVAC systems, Door Control systems, lighting systems and components including Starter Motors, Engines and Transmissions.
- Experience in Heavy Maintenance component renewal/changes including, Wheelsets, Bogies, HVACs, Engines, Transmission, SIV's, Alternators, Couplers and Cooling Group components.

**2. Communication and Interpersonal**

- Good written, verbal and interpersonal skills.
- Demonstrated ability to read and interpret technical drawings and plans and use the appropriate test equipment.
- Demonstrated ability to read and interpret electrical schematics and support fault finding.

**3. Conceptual, Analytical and Problem Solving**

- Demonstrated analytical, decision making and problem solving skills.

**4. Organisation**

- Able to organise and prioritise tasks, and be proactive with a high degree of initiative.
- Ability to work unsupervised and make safety critical decision on the condition of Rollingstock.

**5. Personal Attributes**

- Demonstrated ability to work unsupervised and without direction in a team environment, to achieve personal and team outcomes.
- Be able to undertake focused work with meticulous attention to detail.

**7. Special Requirements**

- Satisfactory completion of required medical examinations to verify physical fitness to perform the duties of the position.
- Provision of a current National Police Clearance certificate, dated 3 months or less from the date of application for the position.
- Possession of a current Western Australian 'C' or 'C-A' Class Drivers License or equivalent. This requirement continues for the duration of employment in this position and from time to time production of the licence on request by the PTA may be required.
- Must be willing to complete Australind and Prospector Competency Assessments and Log Books as per the Mechanical Engineering Branch Competency Assessment Framework within the initial probation period.
- Must be willing to work and attend callouts at unsociable hours.
- Applicants must meet the special requirements shown below within an agreed period. Cancellation of the appointment will occur where an applicant does not meet the special requirements within an agreed period of time after appointment.
  - PTA Individual Access (IA) Track Access Permit

**Certification**

The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

**Managing Director / Executive Director / General Manager**

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**Signature**

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**Date**

**Employee**

I have read and accept the responsibilities of the Job Description Form.

The position's duties are to be performed in accordance with the PTA's Code of Conduct and the PTA's Values.

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**Signature**

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**Date**

