



Job Description Form

Our Purpose

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

Position Title

Design Engineer

Level

5

Position Number

34749

Division/Directorate

Transperth Train Operations

Branch/Section

Mechanical Engineering

Effective Date

February 2022

Health Task Risk Assessment Category

3

Reporting relationships

Superordinate: Principal Engineer, Level 7

Subordinates: No Direct Reports

Key role of this position

Provides design engineering support to the Principal Engineer with respect to the design, modification and maintenance of Public Transport Authority's (PTA) Rollingstock. The role also manages the creation, approval and publication of engineering drawings for the PTA's Rollingstock fleets.

Core duties and responsibilities

Design/Technical Drawing

- Develops and maintains engineering drawing standards for PTA rollingstock assets according to relevant Australian and International codes and standards.
- Produces detailed design, conceptual and manufacturing drawings, schematics and 3D models to assist in upgrades to the PTA's rollingstock.
- Provides technical guidance in relation to design and technical drawings.
- Reviews engineering drawings supplied to the PTA by contractors and suppliers internally and externally for correctness and accuracy in relation to the PTA's code of practice, Safety and Industry standards.
- Maintains configuration records of the PTA's rollingstock assets through engineering drawings.
- Controls the publication of drawing numbers to prevent duplicate drawings being created.
- Manages the publication of approved drawings to the controlled document library in accordance with procedures.

Engineering

- Investigates technical issues and proposes solutions to engineering design problems.
- Creates installation and maintenance instructions for rollingstock assets.
- Assists with the technical review of proposals to meet engineering requirements.

Contract Management

- Liaises with other Divisions of the PTA to ensure Rollingstock and Infrastructure interfaces are well defined and documented.
- Liaises with contractors and suppliers on engineering related matters to ensure that the PTA's design requirements are fully understood and accounted for.

Quality Control

- Ensures PTA's Rollingstock drawings are maintained in accordance with PTA requirements.

Safety

- Complies with PTA's Safety Policy and procedures and maintains a strong safety awareness culture.

General

- Provides design engineering support to the Principal Engineer, with particular regard to Engineering Drawings.
- Provides specialist technical advice to the rollingstock engineering team in relation to design.
- Maintains current knowledge of trends and developments in the area of Design Engineering.
- Knowledge of manufacturing methods and material selection.

Essential Work-Related Requirements

1. Job Specific

- Advanced Diploma of Engineering qualification or equivalent.
- Minimum of three years industry experience.
- Knowledge of Technical Drawing Standards.
- Experience in Mechanical Engineering design and manufacturing.
- Demonstrated knowledge of document control processes.

2. Management and Leadership

- Ability to provide clear advice and feedback to multi-disciplinary project teams.

3. Communication and Interpersonal

- Well-developed written, verbal communication and interpersonal skills.

4. Conceptual, Analytical and Problem Solving

- Ability to, and experience in, applying engineering methods to solve problems and demonstrate sound conceptual, analytical and problem-solving skills.

5. Organisation

- Well-developed organisational skills including the ability to achieve agreed deadlines and prioritise workload.

6. Computer Literacy

- Demonstrated experience in the use of AutoCAD 2D and Inventor 3D software packages or equivalent.
- Experience using Autodesk Vault would be considered an advantage.

Special Appointment 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 Licence 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 Authority may be required.
- Willing to work outside normal office hours on occasion.
- Applicants must meet the special requirements shown below within an agreed period of time. Cancellation of the appointment will occur when an applicant does not meet the special requirement within an agreed period of time after appointment.
- Supervised Worker (SW) 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

.....
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.

.....
Signature

.....
Date

