

## Contract Administration Services (CAS) DT02 – Technical Brief – Designer – Technical Advisor Level 2 Qualifications and Experience

To be considered for the Contract Administration Services (CAS) prequalification levels, applicants must satisfy the mandatory qualification, prerequisite level and mandatory experience requirements.

### Academic / Professional Qualifications – Mandatory

- A Bachelor of Engineering (Civil) or an equivalent Civil Engineering qualification from a recognised tertiary institution, which is accepted by the Institution of Engineers Australia as a full Member (MIEAust), or
- A Bachelor of Engineering Technology (Civil) / Bachelor of Technology or an equivalent Civil Engineering qualification from a recognised tertiary institution, which is accepted by the Institution of Engineers Australia as a full Technologist Member (TMIEAust), or
- An Associate Degree in Engineering (Civil) with relevant competencies equivalent to the three year degree, which is accepted by the Institution of Engineers Australia as a full Engineering Associate Member (AMIEAust), and
- Registration as a Registered Professional Engineer of Queensland – Civil (RPEQ) – applicable to Bachelor of Engineering qualified applicants only.

### Prerequisite level

- A minimum of five years of DT01 Designer Technical Advisor experience in complex road infrastructure projects or a minimum of 10 years of post-graduate experience in planning and civil design of road infrastructure projects including five years of experience in complex projects.

### Academic / Professional qualifications – desirable

- Nil.

### Roles and responsibilities

#### Role:

The Technical Advisor (Design) is responsible for providing technical advice and direction about the interpretation, application and review of relevant planning and design policies, standards, and guidelines across the range of road infrastructure planning and design activities.

There are two Designer Technical Advisor related roles to select from (defined by different levels of experience). The scope, value and complexity of the infrastructure contract must be considered when selecting a Designer Technical Advisor. The following table provides some guidance.

Level	Class of Work Description
DT01	<ul style="list-style-type: none"> <li>• Low to medium value design and construct contracts (under \$50M)</li> </ul>
DT02	<ul style="list-style-type: none"> <li>• High value design and construct contracts (&gt;\$50M)</li> </ul>

### **Responsibilities:**

- Managing the delivery of a program of planning and design projects and services which support the road infrastructure functional areas in the Region to encourage teamwork and staff development.
- Provide high level technical advice, support and consultancy to professionals and technical staff on the planning and design process to ensure fitness for purpose, value for money, and best practice are achieved.
- Assist in the selection of the most suitable design process for project delivery, and manage the project development to ensure compliance and successful delivery.
- Undertake reviews of both temporary and permanent works designs on design and construct contracts to ensure compliance with contractual requirements, project brief, Technical Specifications and legislation.
- Coordinate reviews undertaken by specialist designers internal and external to Transport and Main Roads and facilitate mutually agreeable outcomes to design issues between design reviewers and designers.
- Apply practical techniques of analysis and technical principles, identify possible problem areas and negotiate modifications or adaptations to the design briefs where necessary to achieve acceptance.
- Exercise creativity and initiative in investigating, analysing and conceptualising possible design options to meet project objectives.
- Demonstrate high level skills in project management in planning and design projects using project management methodologies to deliver project outcomes that meet client expectations and achieve target objectives.
- Develop and maintain effective relationships with internal and external stakeholders, including specialist groups, engineering consultants, contractors and industry suppliers, to identify and address needs, expectations and issues.

### **Experience – Mandatory**

- A minimum of 10 years of post-graduate experience in the planning and civil design of road infrastructure projects.
- Extensive experience in interpreting and applying policies, legislation, technical guidelines, practices and procedures to Transport and Main Roads' policies, standards, and specifications.

### **Experience – Desirable**

- Working knowledge of computer-based CAD systems (particularly 12D and AutoCAD) for road infrastructure.

### **Information Required**

- Your CV as a minimum, should provide details of skills, experience and key achievements from your last three projects that pertain to this engagement.

