

## HAZARDOUS CHEMICALS & DANGEROUS GOODS

Under the Work, Health and Safety Act 2011, a person conducting a business has a duty to ensure, so far as is reasonably practicable, that the health and safety of workers and other persons are not put at risk. This includes ensuring the safe use, handling and storage of substances. The WHS Regulation includes duties to manage the risks to health and safety associated with using, handling, generating and storing hazardous chemicals at a workplace.

### DANGEROUS GOODS EXPERTS

TfA are experts in Dangerous Goods facility design and compliance auditing having performed national compliance audits for a number of clients across various industries. TfA senior engineers are chartered professional engineers registered in Queensland (RPEQ) and nationally (NER). This is critical in Queensland where legislation mandates that all design is performed by or under the direct supervision of registered engineers.



TfA are members of the Australasian Institute of Dangerous Goods Consultants and actively apply our expertise to projects where dangerous goods and hazardous chemicals are involved. As nationally recognised leaders in the petrochemicals industry, we can help you identify and classify hazardous chemicals within your facility, conduct risk assessments and reports for authoritative bodies and incorporate changes into your existing design.

### HAZARDOUS AREA CLASSIFICATION

Hazardous Area Classification must be performed by a competent person who has completed approved training such as UEENEEMO52A (gas) UEENEEMO53A (dust). TfA are experienced and certified in hazardous area classification with decades of experience designing, commissioning and operating hazardous area facilities across the nation. It is critical that hazardous areas are identified early in project development to identify where hazardous certified electrical equipment must be installed. Costly delays can be incurred if the correct design and documentation is on place.



### COMPLIANCE AUDITING AND INSPECTIONS

As industry experts, TfA Project Group have provided countless audits on behalf of clients. TfA are intimately familiar with legislative and code requirements, and can ensure your installation is correctly classified, equipment appropriately specified and compliant installation performed ensuring your project is delivered on time and on budget. Whilst regulations differ slightly in each state, electrical installations in 'hazardous areas' often require inspection by an accredited auditor prior to energisation. The inspection is to verify the hazardous area electrical installation and electrical equipment is suitably certified, correctly installed and complies with certification documentation and the appropriate standards. Accredited auditors must demonstrate the necessary expertise or experience, or have completed an approved training course.



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## PROCESS

TfA are an established industry specialist delivering dangerous goods solutions. We focus on meeting our customer KPI requirements whilst providing innovative and value driven outcomes.

We offer unrivalled industry experience and knowledge across the spectrum of the project disciplines, offering a one stop shop for approvals, engineering and design, HAZOP, project management and more.



## MASTER PLANNING

Early involvement with TfA in planning your development can save cost and time. Key early works include

- Development of Site Layouts
- Planning, strategic and statutory advice
- Project Definition and Basis of Design specifications
- Feasibility studies and preliminary cost estimates
- Front end engineering design
- Optimisation of new tank capacity



## REGULATORY APPROVALS

Having the necessary town planning expertise allows the project to be planned and assessed in accordance with relevant Local and State regulatory requirements. Considering the environment that the projects are developed in, it is imperative that pre-planning is correct. TfA's Town Planning team has both national and international experience and are experts in dangerous goods approvals. They can assist with:

- Preparation and lodgement of Development Applications
- Obtain approvals for demolition, Operational Works, building approvals, plumbing & draining, ERAs, etc.
- Planning appeals

## DESIGN

Our complete engineering and design service comprises: civil, mechanical, structural, hydraulic, electrical, fire and process. From site planning and concept design through to detailed design and As Built, the entire process is handled within the TfA Group operations. 3D architectural modelling, 3D Bentley AutoPlant modelling, AutoTurn vehicle movement analysis, sophisticated piping analysis, hazardous zone electrical design.

## HAZOP

TfA has experienced facilitators capable of conducting Hazard and Operability Studies (HAZOPs). TfA facilitators bring experience from previous roles in operations and commissioning to give context and value to the HAZOP review process.

## KEY AREAS OF EXPERTISE

FEASIBILITY STUDIES

PROJECT MANAGEMENT

MECHANICAL DESIGN

PROCESS ENGINEERING

CIVIL DESIGN

STRUCTURAL DESIGN

ELECTRICAL DESIGN

TOWN PLANNING & APPROVALS

CONSTRUCTION MANAGEMENT