



# GTE

Greater Engineering™



## CAPABILITY STATEMENT

We are experts in delivering technology and engineering solutions, providing significant and sustainable improvements to our clients' operations.

Our capabilities cover the entire project lifecycle from initial concept to operational support services.



## About GTE

At GTE we specialise in delivering high quality technology and engineering solutions with a primary focus on delivering value to our clients.

GTE has extensive engineering and project management experience across a wide range of industries and processes on both greenfield and brownfield projects. We know the importance of overall equipment effectiveness in your plant and interface our work fronts seamlessly with your operation. Our team has extensive operations experience and recognises the importance of minimising downtime and operational impacts.

Our capability extends across the entire project lifecycle from concept and feasibility studies to engineering design, technology trials, project delivery and operational support services.

## The GTE Way

At GTE Group our philosophy is simple, it is all about people. People are the key to GTE's success; therefore, we cultivate a supportive, fun and flexible team environment where everyone can thrive and excel in delivering their personal best every day.

We like to think outside of the box and step out of our comfort zone, and we value the individual differences in all our people. It is their multi-faceted experience, operational exposure and unique thinking that have built the foundations of our company.

We pride ourselves on the relationships we build and the commitment we make to delivering cost effective tailored solutions beyond what is expected.

We advocate the values of Safety, Quality, and Integrity. We foster an open and friendly approach to everything we do, where our workforce and clients alike can support each other to achieve a common goal.

## GTE Core Values

**Integrity** – Carrying out work in an ethical and professional manner to deliver on our promises. Doing what we say we will do.

**Quality** – Delivering the highest quality services with strong engineering foundations in our processes. The output of our work is predictable as we follow a rigorous and repeatable process.

**Safety** – We work hard to ensure safety is front-of-mind for all of our people and is our highest priority in the way we work.

## Control Systems

- Process Control and Automation - design, programming, configuration and commissioning for Process Plant, Mobile Machines and Material Handling equipment
- Control system 24/7 maintenance support, remote and on-site support
- Plant Overall Equipment Effectiveness (OEE): optimisation, tuning and efficiency improvements for process plant, mobile machines and fixed plant mining equipment
- Automated code generation for most popular PLCs and SCADA
- Control System Audits for compliance with asset integrity plans
- Mobile machine protective device audits to maintain structural integrity
- High speed data acquisition systems (iba) used for analysis and tuning of fixed plant

## Functional Safety

- Pioneering sophisticated safety rated systems for autonomous machines
- Design and Integration of Hardware and Software Safety Rated Systems
- Safety Integrity Level (SIL) and Performance Level (PL) Design Verifications
- Specifying Hardware and Software Safety Requirements
- Functional Safety Management Planning
- Independent Functional Safety Assessments (FSAs)
- Determine systematic organisational functional safety management improvements
- Leading Risk Assessments/HAZIDs, HAZOPs
- SIL/PL Assessments

## Electrical Engineering

- Low voltage motor control centre design
- General light and power design
- Drive schematic design
- Engineering design drafting
- Equipment specifications
- Switchboard/MCC Compliance Checks
- Complete site as building of electrical systems

## VVVF Drives

- Development, management, and execution of asset management strategies
  - Drive Upgrades for end of asset lifecycle
  - Drive Performance Optimisation for power consumption, mechanical wear and motor health
  - Drive 24/7 Service and Support
- Event recreation for downtime analysis
- Design and rectification of Harmonic Analysis

## Communications

- End to end process control network design – including core, distribution and field switching
- Switch hardware/firmware upgrade strategy development - including shutdown planning and execution
- Switch configuration, factory acceptance testing and site commissioning
- Detailed documentation development such as upgrade methodologies, test documents and engineering drawings
- Switch compatibility testing, involving compatibility with control system devices
- Switch & operational equipment/PLC impact assessments
- Site network integration
- Site and remote support
- Network and communications standards development

## Contacts

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