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ProTECHT

# ProTECHT

## Capability Statement

Condition Monitoring & Automation

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INNOVATIVE CORROSION MANAGEMENT  
FOR A SUSTAINABLE FUTURE

# Overview

ProTECHT, a specialized division of TECHT, focuses on Turn-Key Electrical Projects. With a mission to deliver intelligent solutions, our services encompass a broad spectrum including Condition Monitoring, Automation Solutions, and more. Leveraging a team of highly qualified engineers, we aim to complete projects on time, within budget, and with an uncompromising commitment to safety.

ProTECHT focuses on issue identification, root cause analysis, and cost-effective, priority-based solutions.

We pride ourselves on our industry-leading results in all services we offer.

- We have expertise in all installations, including automation, condition monitoring, communications, and more. Our experienced project managers ensure the project is completed on time, on budget, safely.
- We have an in-house development team for tailored industrial software solutions.
- Our team is adept at feasibility studies, on-site supervision, and integrated solutions.

# Industries

We provide our services to a wide range of industries, including:

-  Mining & Resources
-  Oil & Gas
-  Utilities
-  Ports & Shipping
-  Defence
-  Industrial & Commercial Properties

# Associations

**NECA** National Electrical and Communications Association

**ACA** Australasian Corrosion Association

TECHT is on track to achieve certifications in ISO 9001 (Quality Management), ISO 14001 (Environmental Management), and ISO 45001 (Occupational Health and Safety) by the end of 2024.

# Services

## Processing Automation

“Automating manual processes for operational safety and efficiency gains”

- Design & Feasibility Studies: Computational simulation and ROI assessment
- System Development: PLC, DCS, and SCADA system configuration
- Turn-Key Installation: End-to-end project implementation and system integration

## Condition Monitoring

“Facilitating real-time asset oversight for data-driven decision-making”

- Corrosion Monitoring and Protection Systems (CMAP): Utilizing electrochemical techniques and corrosion rate calculations
- Vibration Analysis: Detecting early signs of machinery faults
- Thermal Imaging: Identifying hotspots for preventive maintenance

## Software Development

“Tailored software solutions for modern industrial challenges”

- Data Acquisition Software: Real-time data collection and processing
- Predictive Maintenance Algorithms: Utilizing Machine Learning models
- Enterprise Software Customization: Modular extensions and API development

## Cathodic Protection

“Comprehensive Cathodic Protection Engineering Services”

- Data Gathering & Design: Corrosion potential mapping and system design
- Turn-Key Installation: Complete CP systems from anode beds, reference electrodes, through to control systems
- Commissioning Services: System validation and performance benchmarking
- Condition Monitoring Upgrades: Incorporation of modern sensor technology and data analytics into existing monitoring systems.
- CP Operation Health Check: Periodic system evaluations
- Scheduled Inspections: Compliance checks and maintenance

## Electrical

“Proven excellence in delivering Electrical projects on time, on budget, safely”

- Turn-Key Electrical Services: From design to commissioning
- Electrical Project Supervision: Ensuring adherence to regulatory standards
- Power Demand and Upgrade Assessments: Load analysis and infrastructure planning
- Multi-Disciplinary Projects: Integrated electrical and automation solutions