



# PRACTICAL<sup>®</sup>

ENGINEERING

CREATIVE THINKING.  
**PRACTICAL SOLUTIONS**

Proudly Australian owned and operated.

C A P A B I L I T Y   S T A T E M E N T



# Creative Thinking. Practical Solutions.

Practical Engineering is a multi-disciplinary design and construction company. We leverage our expertise across engineering disciplines, certification, project management, and construction to deliver projects from concept to delivery. We are your one stop shop for your project needs.

Regardless of your projects' scale, we serve as your partner working with you through each part of your project life cycle to delivery. Established in 1997, we possess a proven track record of serving clients across Australia in various industries and bring that accumulated industry knowledge to your project today.

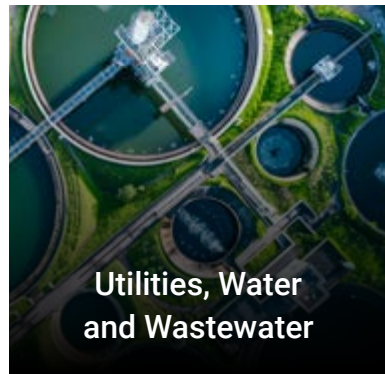
We get results.

**28+**  
Years experience

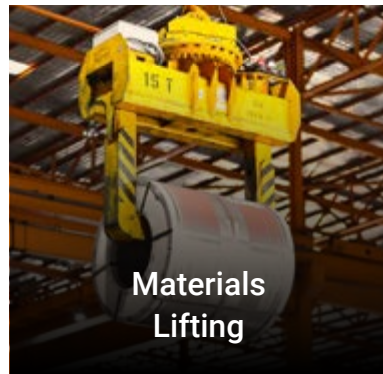
**1K+**  
Clients served

**5K+**  
Designs created

**2K+**  
Projects delivered



Utilities, Water and Wastewater



Materials Lifting



Industrial



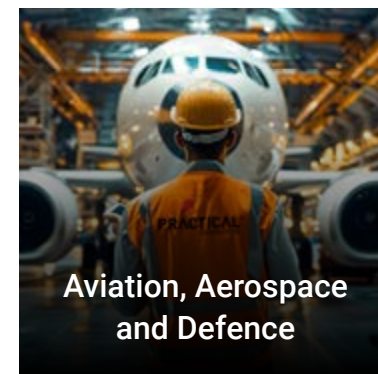
DESIGN AND CONSTRUCT PROJECT

INDUSTRIAL HEATING ROOM

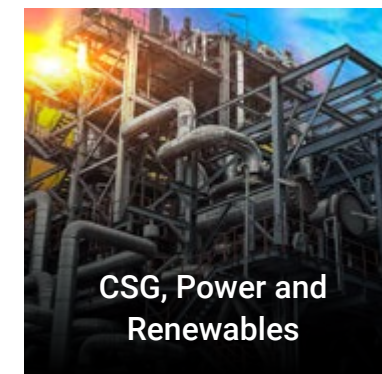


DESIGN PROJECT

AEROSPACE



Aviation, Aerospace and Defence



CSG, Power and Renewables



Mining Resources

Practical Engineering prides itself on having qualified and experienced engineers who are highly skilled to not only meet but surpass our clients' needs. Backed by over 28 years of industry expertise, we consistently exceed client expectations by providing creative and practical solutions. Our dedicated project delivery team complements the engineering team seamlessly, ensuring those ideas translate into real world practical results. Our team is committed to upholding the highest standards in quality, health, safety, and environmental practices.

Our commitment is reflected in our ISO 9001 certified quality system and our Integrated Management System:

- Safety First:** We strive for a zero harm environment, ensuring everyone returns home safe and healthy.
- Environmental:** We continuously minimise the environmental impact of our operations and collaborate with clients to achieve their sustainability goals.
- Compliance:** We adhere to all legislative, regulatory, and ISO 14001 environmental management systems.



# Project Management and Construction

## PROJECT MANAGEMENT

Practical Engineering is a multidisciplinary design and construction company with extensive knowledge and experience in project management and the execution of contracts across the utilities, oil & gas, industrial and other sectors.

Practical Engineering's project management life cycle structure can meet your requirements from project inception through to handover including complete design services, project & construction management, on site construction works and commissioning.

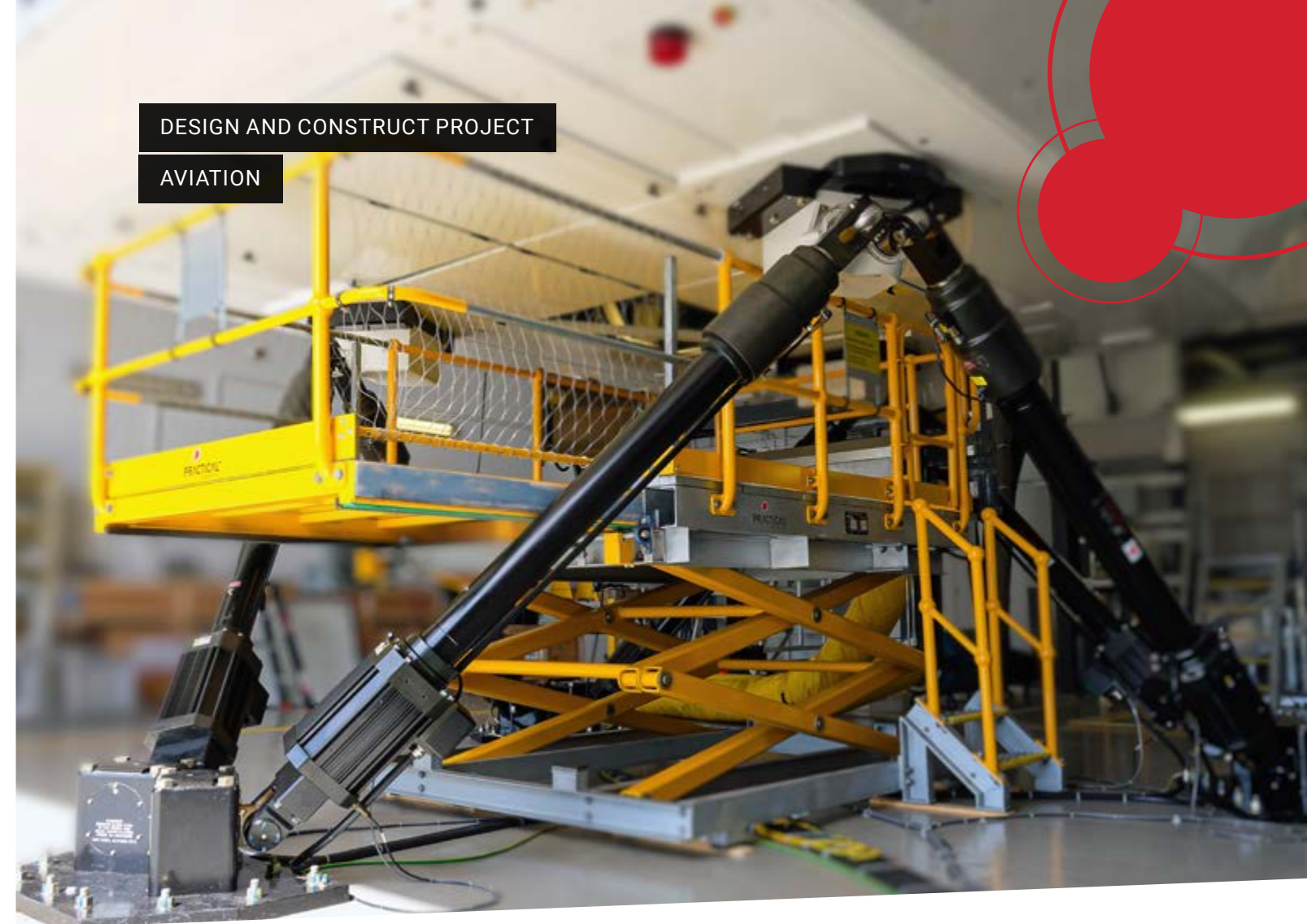
We understand that our clients want to be confident about project management and delivery and want the option to monitor quality through every stage. The design and construct stages are fully integrated to ensure a seamless process for the completion of your project. We are your one stop shop from project concept to delivery.

## SITE DELIVERY

Our in-house construction management and site-based teams bring value to every aspect of the project through their involvement from the initial project scoping, detailed design, fabrication, and construction phases.

Practical Engineering has qualified project managers and work, health and safety officers who are appointed to every design and construct project ensuring the safe execution and on time delivery of your project works.

**We are your one stop shop from project concept to delivery.**



DESIGN AND CONSTRUCT PROJECT

AVIATION



DESIGN AND CONSTRUCT PROJECT

SEQWATER - WIVENHOE DAM 79T GANTRY CRANE

## Engineering: Mechanical and Structural

### DESIGN

Practical Engineering offers a broad range of design experience across many industry sectors for complex structures, bespoke mechanical, structural and process solutions and concept design including feasibility studies. We can take your specific project requirements and complement your expertise across a range of engineering disciplines.

Our engineers and mechanical designers provide excellence through a combination of technical skills and extensive industry experience utilising the latest in design and analysis techniques and software.

Practical Engineering maximises collaboration with clients to create a flexible staged design pathway which meets the project needs.

### PRACTICAL SOLUTIONS

Our high level of collaboration with clients is particularly advantageous during the concept design phase where creative and practical options can be explored in more depth providing the stakeholders with the information required to secure funding, time frames, increased levels of safety and resources to enable project success.

We are proud of our reputation for creative thinking and practical solutions, exceeding client expectations, whilst reducing capital and maintenance costs, and maintaining and improving your system safety performance and efficiency.

**Creative Thinking.  
Practical Solutions.**



# Engineering: Electrical, Process & Pressure Vessels

## PRESSURE VESSELS

Practical Engineering offer pressure vessel design services from concept through to issued for construction drawings. We have strong working relationships with pressure vessel fabricators to see your project through from concept to delivery.

## DESIGN VERIFICATION

Design verification is required for all pressure vessels needing Plant Design Registration and is the process where an existing pressure vessel design, typically approved by a RPEQ/ RPEV engineer, is verified by a second engineer, typically of similar competence.

## PLANT REGISTRATION

Registration is required for pressure vessels with a Hazard Level of A, B or C, and requires that each manufactured vessel has been inspected by an approved inspector and is fit for service.

## PROCESS

Our process engineering team optimises operations with years of experience to ensure fit for purpose solutions and design efficiency within industry norms and economic requirements. Whether it be a consideration in the oil and gas, mining or industrial sector, partner with us to transform your processes.

## ELECTRICAL

To ensure the successful delivery of projects with Practical as your one stop shop, Practical has both in house and external partners we work with to ensure innovative and fit for purpose electrical solutions are tailored to your project needs.

With expertise in electrical system design, analysis and implementation, we ensure your electrical systems are safe and reliable.



INSPECTION, TESTING & CERTIFICATION

RT65 TONNE CRANE



DESIGN AND CONSTRUCT PROJECT

ELECTRICAL AND PROCESS INDUSTRIAL

## Testing, Certification & Inspection

### STAGE 1 – INSPECTION

Inspection is a critical aspect of ascertaining how to extend an assets design life, mode of failure and overall condition for continued use. Knowing what to look for is critical to safety, cost and functionality and with our experience of over 28 years we know when to look past the obvious.

### STAGE 2 – TESTING & COMMISSIONING

Practical Engineering has extensive experience in testing & commissioning clients' innovative solutions and equipment. Our knowledge extends to prototypes, pressure vessels and pipework, lifting devices including cranes and MEWPS to Australian and International Standards. We can carry out your testing requirements and guide you through the complex statutory requirements with either in house testing or alternatively at any location in Australia.

### STAGE 3 – CERTIFICATION

Our Engineers have the relevant qualifications (CPEng, NER, RPEQ, RPEV) for certification of new or existing designs for compliance across Australian, State, and where applicable international standards and legislation.

### REGISTRATION AND INTERNATIONAL PLANT AND EQUIPMENT

Practical Engineering can provide certification services for all registrable equipment throughout Australia. Whether your equipment is access systems, logistics racking, cranes, EWP's, mobile plant, to large scale materials lifting equipment, our engineering team has the expertise and experience to ensure any project, big or small, is handled professionally and quickly.





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