

Engineering and Technical Services

THROUGHOUT THE ASSET LIFE CYCLE



Cardno PPI provides specialized engineering and technical services, aiding customers in designing and operating assets that are safe, reliable, and compliant. Featuring a team of experienced and technically skilled subject matter experts, Cardno PPI is fully equipped and ready to provide customers with reliable and cost-effective solutions tailored to their specific challenges.

Right Focus

- > Cost and schedule conscious
- > Quality assurance driven
- > Technology savvy (digitalization).

Right Qualifications

- > Team of subject matter experts
- > Certified engineers and inspectors
- > Technical accreditations.

Right Experience

- > Multidisciplinary background
- > Cross-industry expertise
- > Troubleshooting / debottlenecking.

Verification and Certification

Cardno PPI provides third-party reviews of designs, projects, and products to ensure standards and requirements are met.

Services include:

- > Independent reviews
- > Design appraisals
- > Assets (Installations and Facilities)
- > Certification of materials and components.

Advisory and Consulting

Cardno PPI provides reviews of risk management efforts and asset integrity management programs. Cardno PPI assesses the functionality of assets to ensure they will operate as expected, minimizing risks and maximizing performance.

Studies include:

- > Technical Safety and Risk Management
- > Production assurance and reliability engineering
- > Asset Integrity Management.

Cardno PPI specialists execute and lead different assessments including:

- > Risk-based studies and workshops facilitation (e.g. HAZID, HAZOP, FMECA)
- > Quantitative and analytical studies (e.g. RAM modeling, SIL verification, RBI)
- > Qualitative studies (e.g. RCFA, RCM)
- > Computerized Maintenance Management System (CMMS).

Cardno is a global provider of integrated professional services which enrich the physical and social environment for the communities in which we live and work. Our team of multidisciplinary specialists around the world has more than 70 years' experience in designing, developing and delivering sustainable projects and community advancement programs. Cardno is listed on the Australian Securities Exchange (ASX: CDD).

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Cardno Fast Facts



6000+
People



130+
Offices



100+
Countries



Cardno PPI solves critical challenges for energy customers around the world, specializing in quality and consulting services; hands-on engineering, certification, and technical services; and technology development and resource management.

Engineering Services

Acting as an extension of our customers team, Cardno PPI provides engineering and operations support. Embedded in our customers organization, Cardno SMEs will design and operate facilities on behalf of our customers.

Activities managed by Cardno PPI include:

- > Manages projects, supplies engineering staff, and provides operations personnel for oil and gas operators worldwide
- > Manages drilling, completion, workover, and plug-and-abandonment operations
- > Provides onsite personnel for oil and gas facilities and fields throughout the world
- > Operates production platforms and subsea tiebacks
- > Additional services:
 - Well-to-surface monitoring
 - Streamlined work processes
 - Startup and operating procedures
 - Production optimization.

Verification & Certification (Assets, Materials, Components)
Industrial Product Certification
Design Appraisal
Failure/Metallurgical Analysis
Finite Element Analysis
Third-Party Inspection
Data Book Review
Material Certification
Supplier Technical Assessment (Engineering Audit)

Advisory & Consulting (Risk, Safety, Reliability)
Critical Well Services
Drillstring Design
Process Hazard Analysis
Safety Integrity Level
Quantitative Risk Analysis
Process Safety Management
Reliability, Availability, Sustainability
FMECA
Asset Integrity Management

Engineering Services (Operations and Staffing)
In-House Drilling/Completion Engineer Support
Drilling/Completion Program Development
Rigsite Engineering Support
Rig Operations Supervision
Production Assurance
API Certified Inspectors
NDT Services
Well Design Review and Certification
Logistics and Procurement

Cardno's Commitment to Zero Harm

Safety is a core value at Cardno and our Zero Harm safety program fosters an environment of clear accountability, shared responsibility, risk awareness and effective communication. Our program underpins all operations and is responsive to the needs of our clients. We are focused on continually improving our safety culture and the management systems that reinforce our commitment to zero harm. Cardno operates an occupational health and safety management system that has been certified to AS4801 and OHSAS18001.