RelyOn Australia

Engineering Consulting

Capability Statement

March 2026

Primary Contact Details

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About Us

RelyOn Australia is a leading provider of electrical safety, engineering consulting, and technical training services. Our expertise spans to renewable energy projects, data centres, Battery Energy Storage Systems (BESS), transmission and distribution developments, and more. Operating across Australia and in 26 countries internationally, our dedicated team includes 7 full-time electrical engineers based in Melbourne, supported by an extensive network of subject matter experts nationwide.

We are trusted by multi-national corporations, major Australian enterprises, and NSW Renewable Energy Zone (REZ) projects to ensure robust electrical safety, compliance, and operational effectiveness from project design through to construction, commissioning, and ongoing operations.

Clients we have successfully supported include:

- **Vestas** - Development of enterprise level Electrical Safety Rules (ESR) and Arc Flash studies across 32 sites
- **Consolidated Power Projects (CPP)** - Enterprise level ESR and LOTO procedures
- **Goldwind**- LV Electrical Safety Rules and a comprehensive LV Framework for compliance
- **GE** - Development of enterprise level Electrical Safety Rules (ESR), Arc Flash studies and Maintenance schedules
- **AGL** - Arc Flash studies and Arc Flash hazard registers
- **Atmos** - Maintenance schedules and HV audits
- **Iberdrola** - Arc Flash studies across 8 sites
- **Equinix** - Arc Flash across 7 data centres

General Capability

- Arc Flash Incident Energy Assessments (IEEE 1584 / NFPA 70E) and Arc Flash Hazard Management
- Hazardous Areas Classification (HAC)
- Hazardous Areas Design (HAD)
- Hazardous Areas Audit
- Protection Overlay, Coordination, and Cable Studies
- Short Circuit, Load Flow , Power quality and Other Power System Studies
- Incident Investigation (TapRoot & ICAM methodologies)
- High Voltage (HV) and Electrical Safety Audits
- Developing Electrical Safety Rules (ESR) and Safe Work Procedures
- HV Switching Documentation and Operational Support
- Preventive, Predictive Maintenance Schedules and Maintenance Strategy Reports
- Electrical Plant Labelling

Arc Flash Incident Energy Assessment & Hazard Management

RelyOn Australia offers a comprehensive Arc Flash Assessment service suite designed to address the full lifecycle of arc flash risk management - from incident energy calculation through to risk control implementation, labelling, and workforce training.

Scope of Services

Our typical Arc Flash deliverables include:

- Arc Flash Incident Energy Calculations (IEEE 1584-2018, IEEE 1584.1-2022, and T&K Methodology for HV)
- AC and DC Arc Flash Analysis (using ETAP, including PTW model transfer)
- Protection study and settings review to reduce clearing time and mitigate incident energy (optional)
- PPE category classification and selection guidance based on AS/NZS 4836 and NFPA 70E
- Arc Flash Hazard Register and Risk Assessments (facilitated through client workshops)
- Design, printing and (optional) on-site installation of compliant arc flash labels (vinyl/ all-weather)
- Detailed Arc Flash Study Reports with Incident Energy summary tables, graphs, and system diagrams
- Arc Flash Awareness Training tailored to the client's procedures, labels, and site risks

Deliverables Overview

Arc Flash Report

A detailed technical report including:

- Methodologies (IEEE 1584-2018, Terzija/Koglin Method, Maximum Power Method for DC)
- Network diagrams, study assumptions, fault current summaries, and risk levels
- Incident energy results and Arc Flash boundaries
- PPE recommendations and category tables
- Risk mitigation recommendations using the Hierarchy of Controls

Arc Flash Hazard Register

A live document that lists:

- Identified arc flash hazards by location/ equipment
- Operational task analysis and exposure likelihood
- Controls implemented or recommended
- Residual risk level using the client's internal matrix

Arc Flash Labels

We can:

- Provide standard-compliant label artwork with client branding
- Supply bulk-printed labels on durable material (weather and UV resistant)
- Install labels on-site (optional service), coordinated with HV site representative

Protection Study (optional)

A separate engagement can:

- Review and improve protection settings
- Reduce arc fault duration and improve trip performance

Arc Flash Risk Assessment (optional)

Facilitated workshops with site teams (remote or in-person) help:

- Identify arc flash, electrical, and mechanical hazards
- Apply control hierarchy per activity
- Integrate with WHS risk processes and site safety rules

Arc Flash Training and Awareness (optional)

We provide:

- Tailored online or in-person training
- Arc flash principles, risk awareness, PPE use
- Label interpretation, task-specific precautions
- Human factor considerations in decision making

Hazardous Areas Classification (HAC)

HAC is ideal for new assets, modifications, regulatory or insurance requirements. Get clear, defensible hazardous-area zoning for flammable gas/vapour and combustible dust atmospheres. We align the classification to the AS/NZS IEC 60079 series (e.g., AS/NZS IEC 60079.10.1) and provide practical drawings plus a classification dossier that contractors can build to, and operations teams can maintain.

Key Outcomes

- Remove ambiguity around where the zone starts/stops so equipment and installation requirements are unambiguous
- Define EPL requirements (Ga/Gb/Gc or Da/Db/Dc) and any special conditions of use
- Establish the compliance baseline for Management of Change (MOC) and periodic review

What We Do (Scope Inclusions)

- Desktop review of process info (P&IDs, layouts, SDS, operating conditions) and existing HA documentation (if available)
- Site walkdown / data capture to confirm release sources, ventilation paths, bunding/drainage, and equipment placement
- Identify release sources and grades of release; evaluate ventilation effectiveness as well as dispersion
- Determine zone type and extent (gas/vapour: Zone 0/1/2; dust: Zone 20/21/22) and document assumptions/limitations
- Produce zone drawings and a classification report suitable for regulator/insurer/project handover

Typical Deliverables

- HAC report (basis, assumptions, zone rationale, references)
- Zone drawings (CAD/PDF) with extents (and elevations/sections where required)
- Substance & release source register
- EPL requirements table for each zone + equipment requirements guidance
- Gap list / actions register (documentation gaps, plant changes, equipment issues observed)

Engagement Options

- HAC Gap Assessment (desktop + targeted walkdown)
- Full HAC (walkdown + complete classification dossier)
- HAC Update / MOC Review (update drawings/assumptions after plant changes)

Hazardous Areas Design (HAD)

HAD is ideal for EPC (Engineering, Procurement, and Construction) design phases, brownfield upgrades, compliance remediation. Once the hazardous zones are defined the design must translate those zones into a buildable solution. We help asset owners and EPCs select compliant Ex equipment and protection techniques, define installation requirements, and produce the documentation needed for construction, commissioning, and ongoing inspection/maintenance.

Key Outcomes

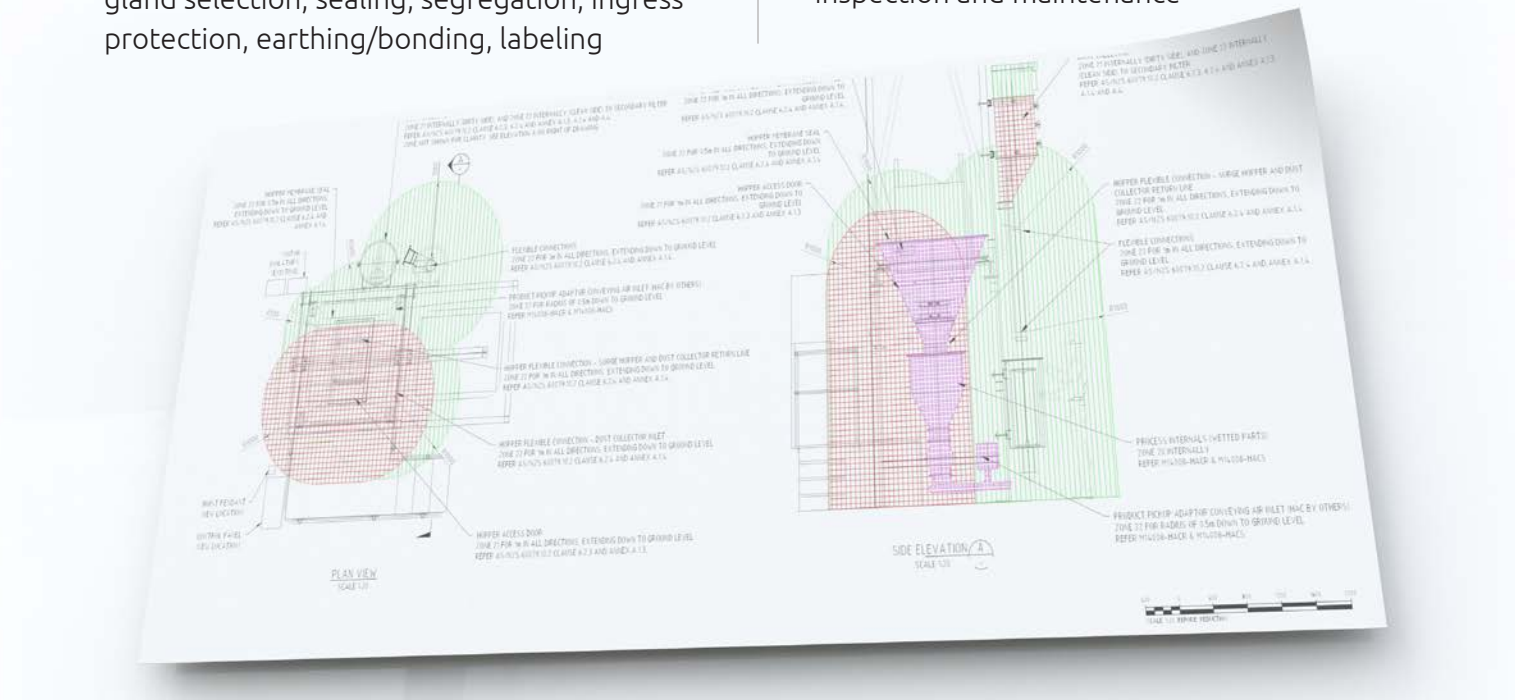
- Correct Ex equipment for the zone (EPL, gas group, temperature class, dust/IP requirements) - without over-specifying
- Installation detail that stands up to commissioning pressure (glands, sealing, segregation, earthing/bonding, mechanical protection)

What We Do (Scope Inclusions)

- Review HAC outputs (or validate existing zones) and confirm design basis
- Develop an Ex Equipment Selection Schedule (EPL/protection technique, gas group, temp class, certificates, 'X' conditions)
- Engineering support for protection techniques (e.g., Ex d, Ex e, Ex i, Ex p, Ex n, Ex t) and IS loop design where required
- Define installation requirements: cable/gland selection, sealing, segregation, ingress protection, earthing/bonding, labeling
- Vendor package review (motors, lighting, instruments, skids) to confirm certification and suitability
- Audit/verification readiness planning: inspection checklists, ITP/ITC, evidence requirements

Typical Deliverables

- HAD Philosophy / Basis of Design (assumptions + verification approach)
- Ex equipment register + selection schedule (certificates + conditions of use)
- Installation requirements/spec for contractors (glands, sealing, conduits, segregation, terminations)
- Drawing markups/updates (as required) + construction notes
- Hazardous-area ITP/ITCs and commissioning checklists
- Handover dossier structure to support ongoing inspection and maintenance



Hazardous Areas Audits

In QLD & VIC, hazardous area electrical installations must be inspected by an accredited auditor before first connection, and before reconnection after electrical installation work (to the extent affected), unless specific exemptions apply. We provide audit planning, on-site inspection, reporting, and close-out support so commissioning isn't delayed by late findings.

What We Inspect (Typical Focus Areas)

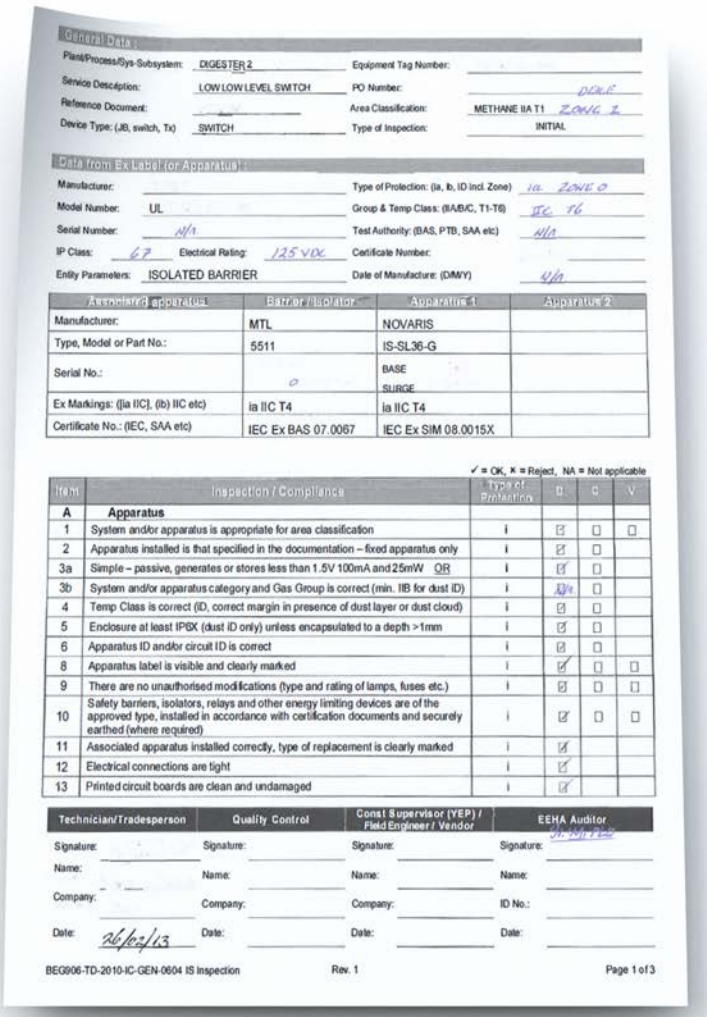
- Ex equipment selection and certification (EPL, gas group, temperature class, dust/IP, 'X' conditions)
- Installation quality: cable entries/glands, sealing/barriers, enclosure integrity, segregation, mechanical protection
- Earthing/bonding and equipotential requirements
- Documentation: zone drawings, equipment register, inspection/test records, as-builts
- Alignment to applicable requirements (AS/NZS 60079 series + AS/NZS 3000, as applicable)

Audit Readiness (Recommended before the Formal Audit)

- Documentation/evidence pack review
- Targeted site walkdown to find likely nonconformances early
- Prioritised punch list and close-out coaching (reduces commissioning delays)

Audit Process (What Clients can Expect)

1. Scoping & booking (confirm what is in-scope under s221 + commissioning date)
2. Pre-audit document request and review
3. On-site inspection (installation + documentation verification)
4. Report issuance + close-out support (clarifications/evidence/re-inspection if required)



General Data

Plant/Process/Sys-Subsystem:	DIGESTER 2	Equipment Tag Number:	
Service Description:	LOW LOW LEVEL SWITCH	PO Number:	DENIE
Reference Document:		Area Classification:	METHANE IIA T1 ZONE 1
Device Type: (JB, switch, Tx)	SWITCH	Type of Inspection:	INITIAL

Data from Ex Label for Apparatus

Manufacturer:		Type of Protection: (ia, ib, ID incl. Zone)	ia ZONE 0
Model Number:	UL	Group & Temp Class: (IIA/B/C, T1-T6)	IIC T6
Serial Number:	N/A	Test Authority: (BAS, PTB, SAA etc)	N/A
IP Class:	67	Electrical Rating: 125 VDC	Certificate Number:
Entity Parameters:	ISOLATED BARRIER		Date of Manufacture: (D/M/Y) N/A

Associated apparatus	Barrier / Isolator	Apparatus 1	Apparatus 2
Manufacturer:	MTL	NOVARIS	
Type, Model or Part No.:	5511	IS-SL36-G	
Serial No.:		BASE SURGE	
Ex Markings: ([ia IIC], (ib) IIC etc)	ia IIC T4	ia IIC T4	
Certificate No.: (IEC, SAA etc)	IEC Ex BAS 07.0067	IEC Ex SIM 08.0015X	

✓ = OK, X = Reject, NA = Not applicable

Item	Inspection / Compliance	Type of Protection	✓	X	NA
A	Apparatus				
1	System and/or apparatus is appropriate for area classification	i	☑	☐	☐
2	Apparatus installed is that specified in the documentation – fixed apparatus only	i	☑	☐	
3a	Simple – passive, generates or stores less than 1.5V 100mA and 25mW OR	i	☑	☐	
3b	System and/or apparatus category and Gas Group is correct (min. IIB for dust ID)	i	N/A	☐	
4	Temp Class is correct (ID, correct margin in presence of dust layer or dust cloud)	i	☑	☐	
5	Enclosure at least IP6X (dust ID only) unless encapsulated to a depth >1mm	i	☑	☐	
6	Apparatus ID and/or circuit ID is correct	i	☑	☐	
8	Apparatus label is visible and clearly marked	i	☑	☐	☐
9	There are no unauthorised modifications (type and rating of lamps, fuses etc.)	i	☑	☐	☐
10	Safety barriers, isolators, relays and other energy limiting devices are of the approved type, installed in accordance with certification documents and securely earthed (where required)	i	☑	☐	☐
11	Associated apparatus installed correctly, type of replacement is clearly marked	i	☑		
12	Electrical connections are tight	i	☑		
13	Printed circuit boards are clean and undamaged	i	☑		

Technician/Tradesperson	Quality Control	Const Supervisor (YEP) / Field Engineer / Vendor	EEHA Auditor
Signature:	Signature:	Signature:	Signature:
Name:	Name:	Name:	Name:
Company:	Company:	Company:	ID No.:
Date: 26/02/13	Date:	Date:	Date:

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Power System Studies: Protection, Short Circuit, Load Flow, and PQ Analysis

RelyOn Australia provides fundamental power system analysis services designed to support the safe and efficient operation of electrical infrastructure. These studies are critical for verifying the integrity of electrical system designs, assessing operational risk, and optimising system performance.

Scope of Services

- Protection Scheme and Coordination Studies – ensure devices operate selectively and with appropriate time/current discrimination, preventing unnecessary outages
- Short Circuit Studies – calculate symmetrical and asymmetrical fault levels, validate equipment ratings, and ensure system withstand capability
- Load Flow Analysis – model normal and contingency loading scenarios, optimise transformer as well as Generator and Battery loading and voltage regulation, and assess reactive power needs
- Motor Starting Studies – validate motor sizing, ensure stable starting under load, and prevent voltage dips across the network
- Power Quality Analysis – detect harmonics, flicker, and voltage sags/swells, support inverter integration and compliance with utility PQ standards
- Network planning studies and Load prediction; Long-term, mid-term and short term
- Studies to support outage management and operations
- Arc flash, motor starting and reacceleration, inrush current analysis
- Earthing systems and lightning protection studies
- Distribution Network Analysis and voltage reduction studies

Deliverables Overview

- ETAP, PSCAD and Power Factory-Based system model
- Technical report with network diagrams, result summaries, and compliance checks
- Recommendations for relay settings, CT/VT sizing, breaker ratings, and switching sequences
- Tabulated outputs for fault currents, load margins, and voltage profiles under load

These services are often delivered as part of:

- Site upgrade projects
- Commissioning design reviews
- Network compliance assessments (e.g., grid connection)
- Root cause investigations and system performance improvements

RelyOn Australia can also assist in data collection, model validation, and development of long-term power system study frameworks as part of asset lifecycle engineering

Electrical Incident Investigation

RelyOn Australia delivers independent electrical incident investigations using globally recognised methodologies such as TapRooT® and ICAM. These services help our clients uncover not only what went wrong but why it occurred - linking human error, organisational controls, and system failures to ensure meaningful corrective actions.

Scope of Services

Our structured investigation approach includes:

- On-site assessment and evidence collection from the incident location
- Initial and follow-up interviews with relevant personnel
- Forensic review of switching sheets, permits, protection responses, and commissioning documents
- Development of SnapCharT® timelines and Causal Factor Analysis
- Root Cause Identification using the TapRooT® Root Cause Tree
- Review of Safeguards, Controls, and Procedural Adherence
- Analysis of human factors, organisational gaps, and communication breakdowns
- Development of Corrective Actions linked to hierarchy of control
- Verification of Competency (VoC) reviews for relevant operators (where required)

Deliverables Overview

- Incident Investigation Report with structured sections including:
  - Executive Summary and Summary of Events
  - Data Collection, Interview Records, and Client-Supplied Documents
  - Causal Factors and Safeguard Failures
  - SnapCharT® and Root Cause Trees
  - Recommendations and Mitigation Plans
- Root Cause Analysis Summary including:
  - Human factors (e.g., complacency, lack of awareness, poor communication)
  - Systemic and procedural breakdowns (e.g., unclear Single Line Diagrams, poor labelling, inadequate handovers)
- Corrective Action Matrix categorised by timeframe (Immediate, Short-Term, Long-Term)

Our incident investigation service is built on the premise that merely identifying human error is insufficient understanding the systemic contributors, latent conditions, and safeguard failures is key to improving electrical safety.

HV and Electrical Safety Audits

RelyOn Australia conducts detailed HV and electrical safety audits for operational and under-construction energy sites to assess compliance with applicable electrical safety legislation, codes of practice, and Australian Standards. Our audit methodology is built on real-world industry performance expectations and a deep understanding of HV system risks.

Scope of Services

We undertake audits that assess:

- Compliance with WHS Act, Electrical Safety Act, and applicable state Codes of Practice
- Readiness for safe energisation or continued HV operation
- System condition, integrity of protection and isolation protocols
- Safety documentation, permits, procedures, and signage
- Adequacy of PPE, testing equipment, emergency equipment (AEDs, spill kits, extinguishers)
- Housekeeping, labelling, and safe access to HV rooms and substations
- Training records, VoC, and supervision of HV authorised personnel
- Practical implementation of arc flash and LOTO protocols

Deliverables Overview

Each audit includes:

- Audit Report with detailed findings, photographic evidence, and prioritised recommendations (High/Medium/Low Risk)
- Gap analysis against AS/NZS 3000, AS 2067, and client WHS obligations
- Compliance Review Matrix highlighting expired PPE, RCD testing gaps, switching errors, and permit deficiencies
- Corrective Action Plan with designated responsible roles and timelines
- Document Control Review of safety procedures, switching programs, and access permits

RelyOn Australia's HV audits go beyond a checklist - we provide structured and actionable insights that directly improve site safety, reliability, and regulator readiness.

Developing Electrical Safety Rules and Safe Work Procedures

RelyOn Australia develops and implements documentation frameworks that form the foundation of safe electrical work practices. These documents are tailored to the operational, regulatory, and risk profiles of our clients, ensuring compliance and practical application in field operations.

Scope of Services

We support clients in designing, reviewing, and integrating:

- Electrical Safety Rules (ESR)
- Electrical Safety Management Plans (ESMP)
- Isolation and Lock Out (LOTO) Procedures
- Energisation Procedures
- Permit to Work Systems
- ELV/LV Frameworks
- LV Audit Protocols
- Inspection & Test Plans (ITP) and Checklists (ITC)

ESR – Electrical Safety Rules

The ESR is the cornerstone document for managing HV and LV electrical safety on-site. It defines mandatory rules, control measures, and responsibilities:

- Role definitions (e.g., HVSO, LVIO, Electrical Supervisor)
- Authorisation matrices and safety role expectations
- ALARP-aligned risk controls and practical work boundaries
- Safe approach distances by state (aligned to NENS04)
- Appendices including LOTO roles, switching flowcharts, and human error mitigation rules

ESMP – Electrical Safety Management Plan

A holistic, site-specific governance framework that defines how electrical risks are identified, controlled, and reviewed:

- Coverage of electrical work definitions (AS/NZS 4836, WHS Regs)
- Supervisory structures, training, contractor control, and hazard management
- Exclusion principles, safe working distances, and electromagnetic field precautions
- Review loops and document integration

Isolation & Lock Out (LOTO) Procedures

RelyOn Australia develops detailed LOTO procedures built around AS/NZS 4836 and 3760:

- Isolation workflows for switchboards, temporary works, and eBoP systems
- Step-by-step methods (Identification, Disconnection, Isolation, Verification, Earthing, Tagging)
- Personal, group, and system-level lockout provisions
- Escalation for live work situations
- Tools for proving-dead and lockout integrity

Energisation Procedures
Practical and test-focused guidance for safe energisation:

- Sequencing protocols, permit release, and authorisation gates
- Construction wiring rules (AS/NZS 3012) and temporary supplies
- Test method templates (polarity, continuity, insulation, impedance)
- Commissioning readiness reviews and fault protocols

Permit to Work Systems
RelyOn Australia designs integrated electrical permit workflows that reflect ESR and ESMP requirements:

- Electrical Access, Vicinity, and Sanction for Test (SFT) permits
- Defined roles (Issuer, Recipient in Charge, Electrical Supervisor)
- Digitally enabled or printable formats with embedded sign-off chains

ELV/LV Framework
Built for compliance and repeatability across diverse workforces:

- State-specific matrices for licensing, CPD, and recognised training
- Guidance for prescribed/unprescribed work and restricted licensing scopes
- Checklists, procedures, and inspection records aligned to AS/NZS 3000, 3012, 3760, 3017
- Supports onboarding, contractor management, and maintenance QA

LV Audits and Compliance
We deliver audit protocols aligned with WHS law and Australian Standards:

- Review of safety certificates, documentation, permits, and SWMS
- Walkdowns and sampling audits with non-conformance tracking
- Escalation protocols and close-out verification for corrective actions

Inspection & Test Plans (ITP) and Checklists (ITC)
Structured documents for lifecycle tracking of inspections:

- ITPs aligned to energisation milestones and test stages
- ITCs to verify results, support QA integration, and close-out compliance
- Pre-built links to Certificates of Compliance and commissioning sign-off

These documentation systems include implementation support, training, integration workshops, and hazard management guidance, helping client teams feel confident using and maintaining them over time.

Designing Electrical Systems: HV/MV/LV Electrical and All Associated Systems

RelyOn Australia provides foundational power system analysis services designed to support the safe and efficient operation of electrical infrastructure. These studies are critical for verifying the integrity of electrical system designs, assessing operational risk, and optimising system performance.

Scope of Services

- Designing HV/MV/LV Systems from Concept design to Detail design to Construction phase
- Designing HV Substations: Primary and Secondary systems design
- Design Management: Designing in accordance with the power systems studies and risk analysis, Australian and international standards and regulations, as well as the specific requirements of the relevant network service providers.
- Equipment Sizing, Selection of and Detailed design:
  - HV/MV/LV equipment, switchgear
  - Battery chargers and Battery storage
  - HV/MV/LV switchboards, capacitor bank, and motor control centre panels
  - Distribution networks, all compact substations and distribution panels
  - Emergency power systems, Back-up diesel generators, UPS and change over panel
  - Relay and control panel and metering and CT/VT/CVT
  - Earthing system, ground grids and lightening systems
- Hazardous area design including:
  - Hazardous area assessments and Classification of hazardous areas
  - Hazardous area design and equipment selection

Typical Deliverables Overview

- Concept of design and Basis of design reports
- Load lists, General Arrangement (GA) drawings, layouts and equipment locations
- Single line diagrams (SLD), Logic and Riser Diagram, Schematics and wiring diagrams
- Cable routing, cable schedules and termination details
- Grid layout, touch and step voltage analysis
- Hazardous area documents and drawings
- Equipment Data sheets and Specifications and Bill of Materials (BOM)
- As-Built Documentation packages

Verification of Competency (VoC)

RelyOn Australia supports clients in establishing and maintaining high operational competency standards through structured training programs and formal VoC (Verification of Competency) assessments. These services are essential to ensuring that authorised personnel; particularly those in high-risk electrical roles have the practical skills as well as theoretical understanding required to perform safely and legally.

Scope of Services

- Custom training programs tailored to client Electrical Safety Rules, work procedures, and hazards
- VoC frameworks for High Voltage Operators, Electrical Supervisors, and Permit Issuers
- Practical assessments, including observation and evidence-based verification
- Written knowledge tests aligned with switching procedures, permit rules, and site-specific risks
- Ongoing refresher training and revalidation planning

VoC Methodology

RelyOn Australia's VoC process evaluates:

- Task-based knowledge using written and scenario-based questionnaires
- Hands-on competency (switching, isolation, permit issuing)
- Communication, procedural accuracy, and safe judgement
- Compliance with client-specific ESR and permit-to-work systems

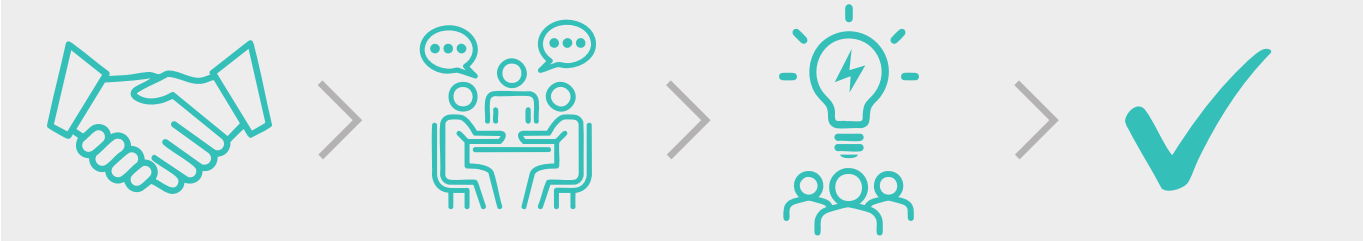
Our validation approach includes:

- Customised VoC Questionnaires (e.g. for High Voltage Operating Authority roles)
- Site-based supervision or remote validation with competency logs
- Training gap identification and bridging sessions

This structured framework ensures that operational roles are filled by competent individuals whcxo are demonstrably safe to operate within the site's electrical risk envelope.

Comprehensive End-to-End Package

In today's complex and competitive industrial landscape, success goes beyond good design. At RelyOn Australia, we believe the path to sustainable performance begins with intelligent engineering and continues through the empowerment of the people who operate the system.



Concept to Construction Phase	• Concept development and technical feasibility assessment • Electrical, control, and infrastructure system design in line with Australian and industry standards
Implementation Planning & Asset Structuring	• Development of a structured Asset Register and hierarchical classification • Maintenance strategy definition and preparation of asset data for CMMS integration • Design of safe and efficient operational and maintenance procedures
Operator Enablement & Training	• Delivery of hands-on, applied training programs for operators and maintenance teams • Simulation of real-world scenarios, switching plans, and fault response strategies • Development of safe work instructions (SOPs, SWMS, Work Instructions) for day-to-day use)
Sustained Support & Safety Culture	• Building a strong safety culture and supporting continuous learning cycles • Consulting on process improvement, incident analysis, and reliability enhancement • Ongoing support until teams achieve confident, independent operation

Our Team

Stuart Mallinson

Principal Electrical Engineer

Stuart Mallinson is a seasoned professional with extensive experience in large-scale electricity generation, transmission, and system control. His background spans across various areas, including wind farm operation, maintenance, and regulatory compliance, as well as nuclear generation, steam plant operations, and UK Grid system management.

In the Australian energy sector, Stuart is renowned for his hands-on involvement in energy asset construction and commissioning, with a particular focus on onshore wind resources. As a High Voltage Operating Authority, he has successfully developed processes for wind farms and substations in multiple regions. Stuart's expertise also encompasses inspection and maintenance procedures, operational training, and power quality testing in the Australian wind industry.

Stuart has long standing leadership capabilities, demonstrated throughout his career, most notably when he led main plant outages and adeptly resolved technical issues at a nuclear power plant in 2010. Moreover, he made significant contributions to the 'Ringhals' Nuclear Power Plant project in Sweden with the World Association of Nuclear Operators.

Malai Sunderam

Senior Electrical Engineer

A highly experienced Chartered Electrical Engineer with 18 years of exposure in Construction, Engineering, Design Review, Procurement and Commissioning. Passionate about providing service which facilitates Construction and Electrical Safety standard compliance whilst maximizing efficiency. Detail oriented, analytical and organised with a focus to concentrate on the most complex of tasks and the intelligence to accept, absorb and apply new information effectively.

Exceptional communication skills to lead successful negotiations and manage relationships with stakeholders at all levels. A motivational and inspirational leader capable of coaching and developing other members of staff to enable them to fulfill their potential and add value to the business. Dedicated and reliable with the drive to succeed.

Adam Lewis

Lead Hazardous Area / Electrical Engineer

Bringing 20+ years' experience across hazardous area and heavy industrial projects. His background spans classification, installation, inspection, auditing, compliance, and electrical design/testing across multiple sectors including oil & gas, defence, water, food & beverage, and commercial facilities. Adam has supported major organisations including Santos, Origin, QGC, Oil Search, Brisbane Water, QUT, and Department of Defence, delivering practical outcomes aligned to Australian and international standards.

Haoran Zhang
Electrical Engineer

Haoran worked at the State Grid Corporation of China from 2017 to 2022 in an asset-oriented management role. During this time, Haoran developed strong capabilities in establishing asset registers, conducting criticality analyses, preparing maintenance plans, coordinating outage schedules, and supervising commissioning activities. Routine responsibilities also included critical spare parts management, defect registration, and system redundancy planning.

Since 2024, Haoran has been actively involved in the renewable energy sector, delivering maintenance schedules and operational support across multiple renewable energy sites throughout Australia.

Lakshan Jayamaha
Engineering Consulting Manager

Lakshan Jayamaha is a dedicated electrical engineer with a robust background in high-voltage renewable energy systems. With three years of industry experience, Lakshan has become an expert in conducting Arc Flash studies, authoring and implementing electrical safety rules, and designing protection and permit systems that ensure operational safety and compliance.

Lakshan has played a key role in incident investigations, high-voltage audits, and the evaluation of infrastructure and work procedures, ensuring the highest standards of safety and efficiency. His work reflects a strong commitment to mitigating risks while enhancing the reliability of renewable energy systems.

Thuriya Owitipana
Electrical Engineer

Thurya is an experienced Electrical Engineer who started his career in Building Services Engineering with 6 years of experience as a Lighting Applications Engineer, working along with various stakeholders in the construction industry. Then he moved into the renewable energy sector as an Engineering Project Manager. He headed a team of engineers and technical personnel to successfully complete one of the largest roof top Solar PV installation projects in Sri Lanka spanning over 180 locations with a cumulative installed capacity of 10MW, showcasing exceptional technical, organizational, leadership, and negotiation skills.

Thurya joined RelyOn Australia in 2023 and since then has been performing Arc Flash Analysis for various electrical installations including large scale Wind Power Plants and Solar Power Plants. He produces Arc Flash Study Reports and Arc Flash Hazard Registers following applicable local and international standards, enabling safe operations at high-risk electrical working environments.

Robert Lui
Electrical Engineer

Robert is an experienced Electrical Engineer who started building switchboards and developed his career in the Construction Industry as a Building Services Engineer and Sub-Contractor for 8 years. He had designed and commissioned distribution construction projects in New Zealand, Singapore and Australia.

Robert joined RelyOn Australia in 2024 and since has been performing Arc Flash Analysis for Renewable sites and Data Centres.

Gwen Kwong

Electrical Engineer

Gwen has three years of experience in project management and has since moved into a role focused on high voltage (HV) electrical consulting. She brings a structed approach to safety-related work, with a focus on Electrical Safety Rules (ESR), Electrical Safety Management Plans (ESMP), HV audits, and arc flash assessments. Gwen supports the team by preparing clear technical documentation, assisting with compliance reviews, and liaising with clients and stakeholders to ensure all work aligns with both technical standards and regulatory requirements.

Jonnathan McDowell

Graduate Electrical Engineer

Jonathan McDowell is a qualified Electrical Engineer with one year of experience in the industry. He specialises in Arc Flash studies and has been involved in reviewing and assessing electrical safety documentation to support compliance with relevant standards.

RelyOn Australia

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www.relyonaustralia.com

GWO Certified Training Provider 2025

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

Nationally Recognised Training RTO No. 40754