

# Training for Essential Skills and Safety in the Rail Industry



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# Who We Are

## Nationally Accredited Training

Thomson Bridge is an Australian nationally Registered Training Organisation (RTO ID 40754).

## Safety Leaders

We are passionate about teaching workers how to assess hazards, evaluate risks and implement sound decisions to operate safely for themselves, their work party, and the rail network.

## Thomson Bridge provides flexible, innovative and cost effective training solutions to the Australian Rail Industry.

Our services ensure that you can maintain a skilled workforce; operate with safe and consistent work practices; and meet regulatory compliance and audit readiness.

Our Clients are rail network owners and contractors who:

- Operate and maintain rail networks
- Upgrade and extend rail corridors, replace level crossings
- Build tunnels and new tram and train rail infrastructure

Thomson Bridge's national team of 60 electrical, rail and safety practitioners, engineers and learning & development (L&D) specialists bring a depth of knowledge, ability to communicate, and demonstrated safety and technical leadership.

Our training support services include our contractor induction and compliance management platform, called The Bridge, together with eLogbooks and eWallets for on-the-job recording for workplace training and proof of certification against skill sets.



# For Electrical Safety Skills and Compliance

## We develop practical and easy to use curriculum and learning solutions:

- So that our Customers improve worker safety, compliance and competence
- For construction, handover, operations and maintenance activities.

## We design and deliver training so that workers can:

- Operate safely near live electrical apparatus
- Operate plant safely in the rail corridor
- Understand network Electrical Safety Rules
- Make applications, apply and receive permits
- Perform High Voltage switching operations for overhead lines, substations, signals
- Install, maintain and approve underground cable installations and jointing connections
- Install and maintain overhead lines
- respond to construction schedules, handovers, occupations, maintenance activities
- Operate in control rooms where electrified network and plant is monitored and controlled
- Diagnose and respond to critical network events and faults
- Administer first aid and first response in rail environments









# Our Courses

## Improving essential electrical skills and safety awareness via induction modules, short courses and qualifications

- Accredited and tailored training founded on Rail Industry best practice
- Developed and delivered by a national training team of electrical, rail and safety practitioners
- Supported by engineers, L&D professionals and digital platform and content innovators.

We embrace a modern approach to education - our face to face and blended learning is complemented by flexible delivery via training facilities, digital infrastructure, tools and content for online experiences.

**Our Courses**

 High Voltage Operations	 Electrical Safety Rules	 Rail Corridor Construction Course	 UET30721 Certificate III in ESI - Rail Traction
 Working with Plant & Substation Familiarisation	 Permit to Work Near	 Authorised Recipient	 UET20621 - Certificate II in ESI - Asset Inspection and Testing
 Underground and Overhead Safety Observer	 Authorised Applicant	 UEPOPS428 - Develop HV Switching Programs	 Cable Jointing and Installation - awareness and qualifications
 Live Low Voltage Work and Make LV Dead	 High Voltage & Arc Flash Awareness	 Working Safely near Live Electrical Apparatus	 First Response and First Aid

Click on each of the above tiles to take you to the course details.

# We Provide Access to Qualifications via Flexible Learning Pathways

## A modern approach to gaining full Qualifications and accredited Units of Competency in the Rail sector

- Quality and consistency in training delivery, administration and reporting
- Clear, measurable outcomes for today's learners and their Employers
- Collaboration with Employers to structure and record on-the-job experiences.

## Experienced worker pathways

Our experienced program managers research and map legacy qualifications and work experience against current nationally recognised qualifications; apply Recognition of Prior Learning (RPL), credit transfer and design custom gap training programs to enable the candidate to achieve the relevant Australian qualification.

## Apprenticeship management

We provide innovative and practical Apprenticeship programs by combining our Electricity Supply Industry (ESI) learning design and delivery expertise with solid industry collaboration to deliver Rail Industry qualifications including:

- UET30721 Certificate III in ESI - Rail Traction
- UET30821 - Certificate III in ESI - Distribution Underground.

## Partnering and RTO Auspice Services

Our Partnering and Auspice Service means that we support you to use your in-house training professionals to deliver training and assessment services; incorporate company specific courses aligned to your work procedures; and, where relevant, issue nationally accredited Units of Competency.

# eLearning - Design and Hosting Services

- Thomson Bridge provides a complete design studio capability for the development of eLearning content. Our services include learning pathway design, assessment design, graphic design and content packaging.
- Our hosting service enables learners to access your modules online from anywhere and on any internet connected device, whilst keeping the detailed records of access and completion that you need to maintain compliance with your relevant laws and regulation.
- Straightforward solutions designed by industrial training practitioners to work efficiently and provide the essential records your need to ensure compliance for staff and contractor work parties.



*Click here to explore.*



# Technical Design & Content Development

**For a modern approach to education**

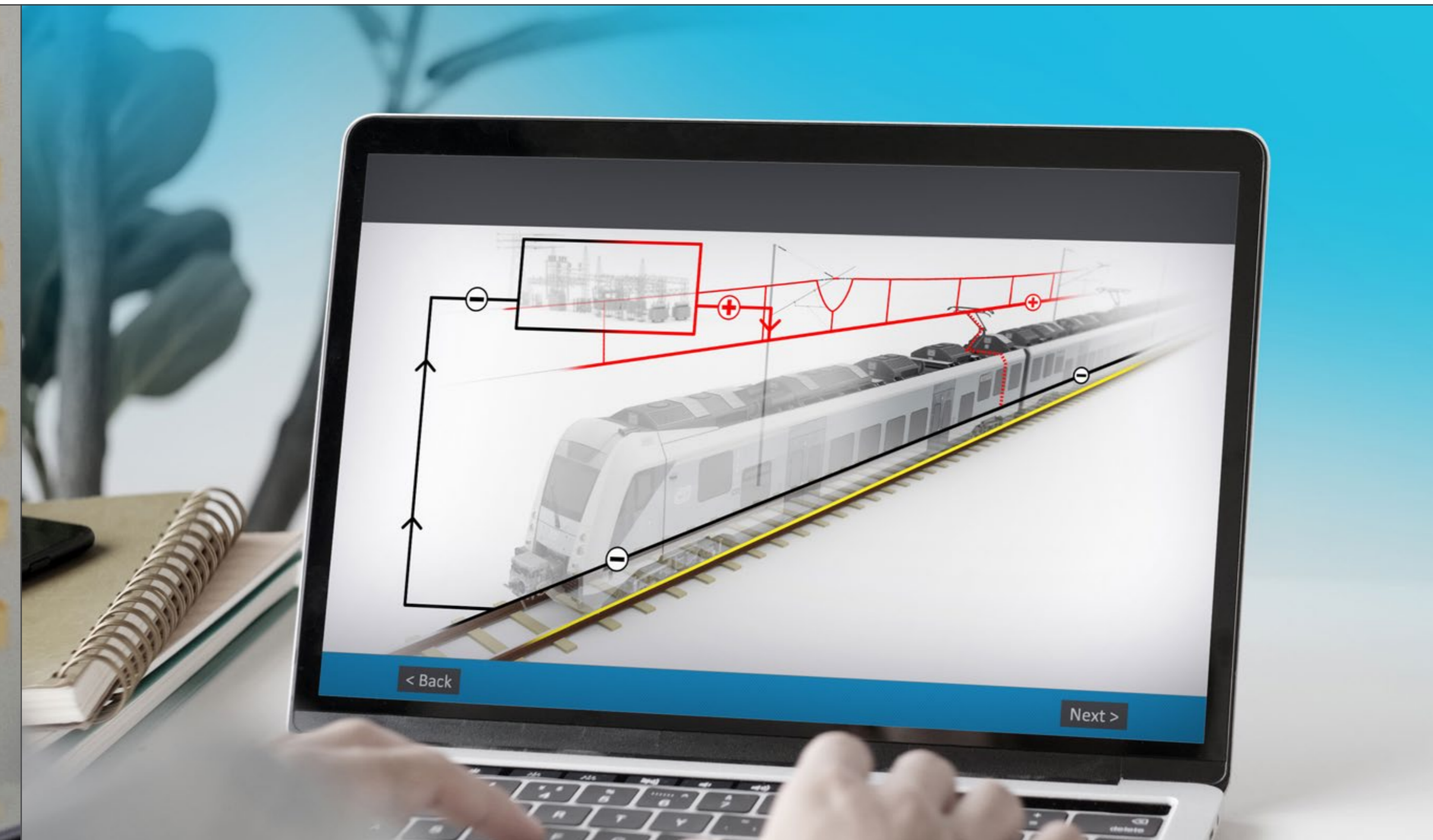
Our engineers, L&D Practitioners and digital media specialists develop Rail industry courseware,

technical documentation and learning media that is current, relevant and easy to use.



## Curriculum development

Develop business specific role skill sets, training matrixes, qualification packaging and competency frameworks.



## Instructional design

Course design and learning resource builds & technical writing and illustration.



## Digital Content

eLearning, video, infographics & 3D imagery. advanced learning technologies ranging from simulations to virtual environments.

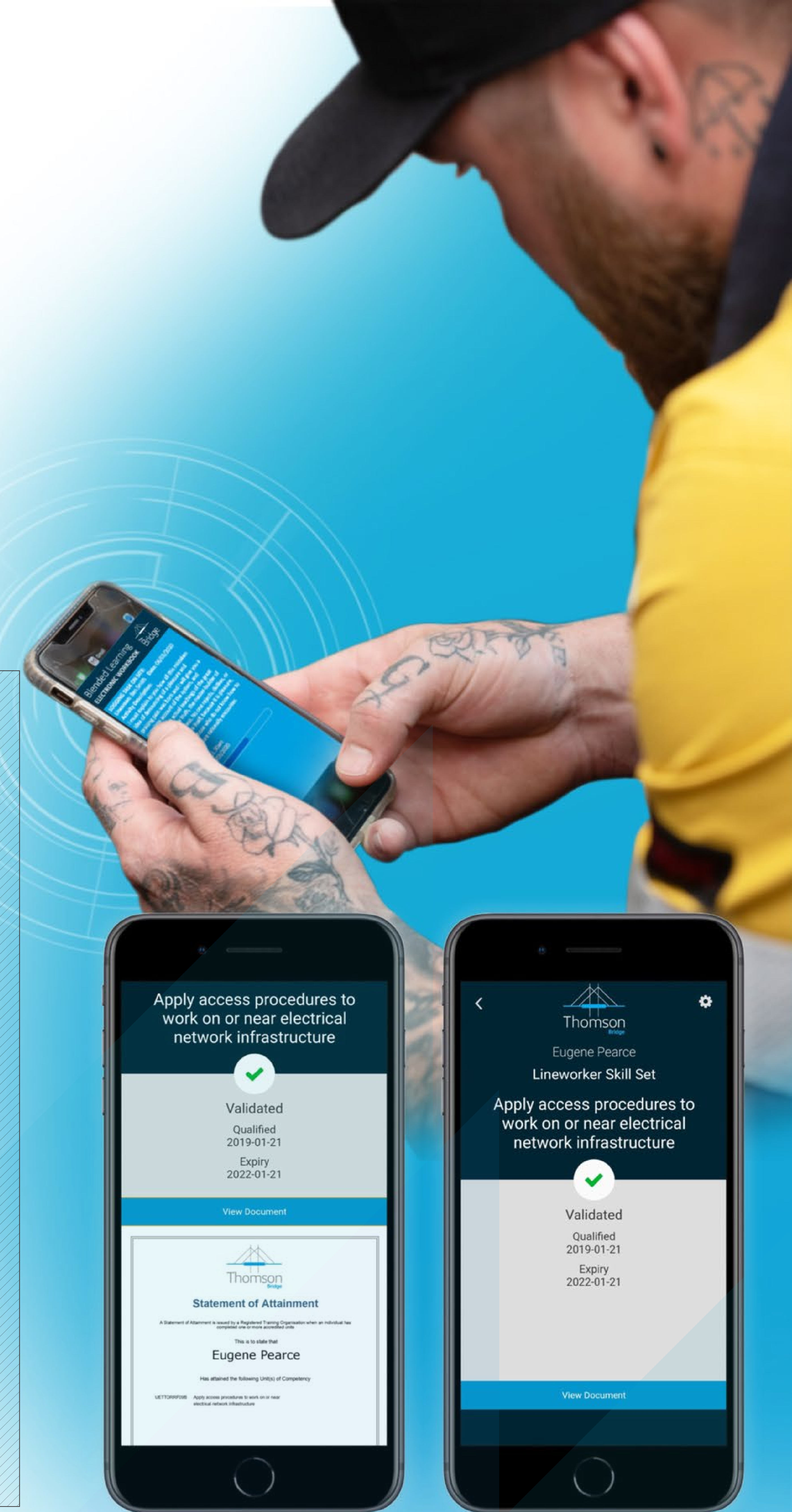
# Learning and Compliance Management

Our easy-to-use tools enable access to courses and records; tracking against skill sets and training matrices

Our Learning Management System is called **The Bridge**, it provides:

- **Students and trainers access** to classes, enrolment, learning materials, assessments, progress tracking and certificates.
- **Skill Set & Competency Management** - defines skill sets specific to a company, group or team and manage workers' compliance to this framework
- **Training History** by storing and reporting on individual training attendance and certificates.
- **Reporting** to ensure workforce compliance and management to training needs.
- **Mobile phone App** to enable each employee to easily access and display records and compliance against required skill sets.

- **Worker Cards with a QR code** linking back to the individual's records is also available.
- **Contractor management** enables a company to upload records for a work party and demonstrate compliance against the skills and authorisations required to work on your asset, network or project.
- **Multi media content** including PowerPoint, images, animation, video and software scenario simulation
- **Multiple assessment modes** such as observation checklists, online quizzes and short answer modes and paper based.
- **eLogBook** – to record and validate work experiences and evidence, providing both the trainee and their supervisors with immediate visibility of task/course progress via their smart devices.



# Training Management Services

**Our extensive work with Rail Network owners, operators, contractors and industry bodies enables Thomson Bridge to provide the following services to meet your operational needs:**

- Auspice and Partnerships
- Apprenticeship programs
- Online induction management
- Complete outsourcing – initial and refresher training and records management
- Training needs analysis
- Competency mapping, frameworks and skill set management
- Procedure and method development
- Verification of competency assessments
- Workplace audits and subject matter expertise

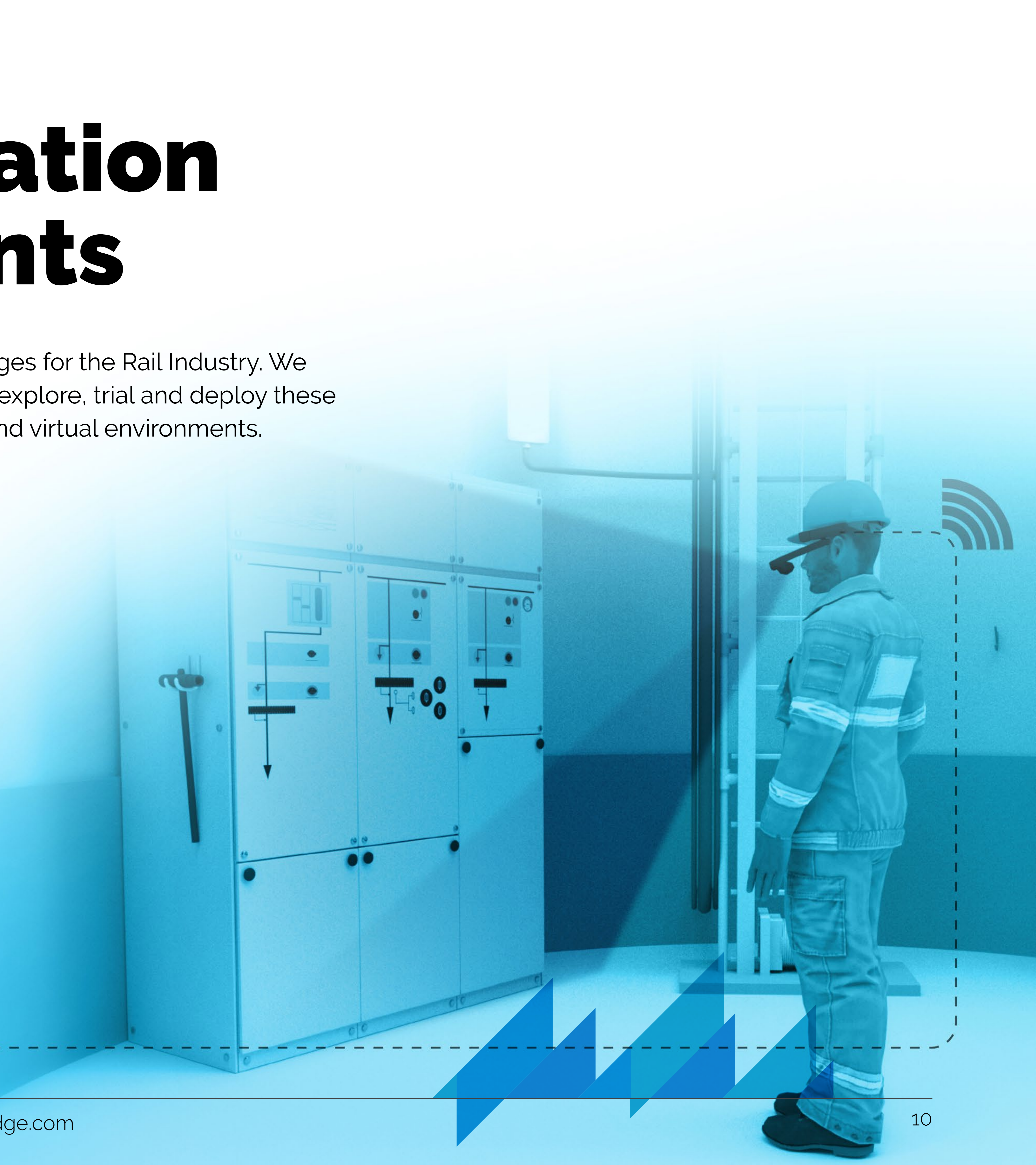


# Digital Media, Simulation & Virtual Environments

We reach out to innovative companies that offer leading digital and virtual environments for training and competency assessment that solve real world training

and operational challenges for the Rail Industry. We work with our clients to explore, trial and deploy these diagnostic, simulation and virtual environments.

- **Macquarie University** – Developed by the Human Psychology Dept, this on-line software tool evaluates situation assessment skills, and provides feedback for personalised training plans
- **IncSys** – PowerGrid software simulation for control room operators to experience normal, abnormal and emergency operation conditions
- **Flaim** - virtual reality fire extinguisher featuring a range of fire events to efficiently train first responders
- **RealWare** - head sets for remote mentoring and assessment.

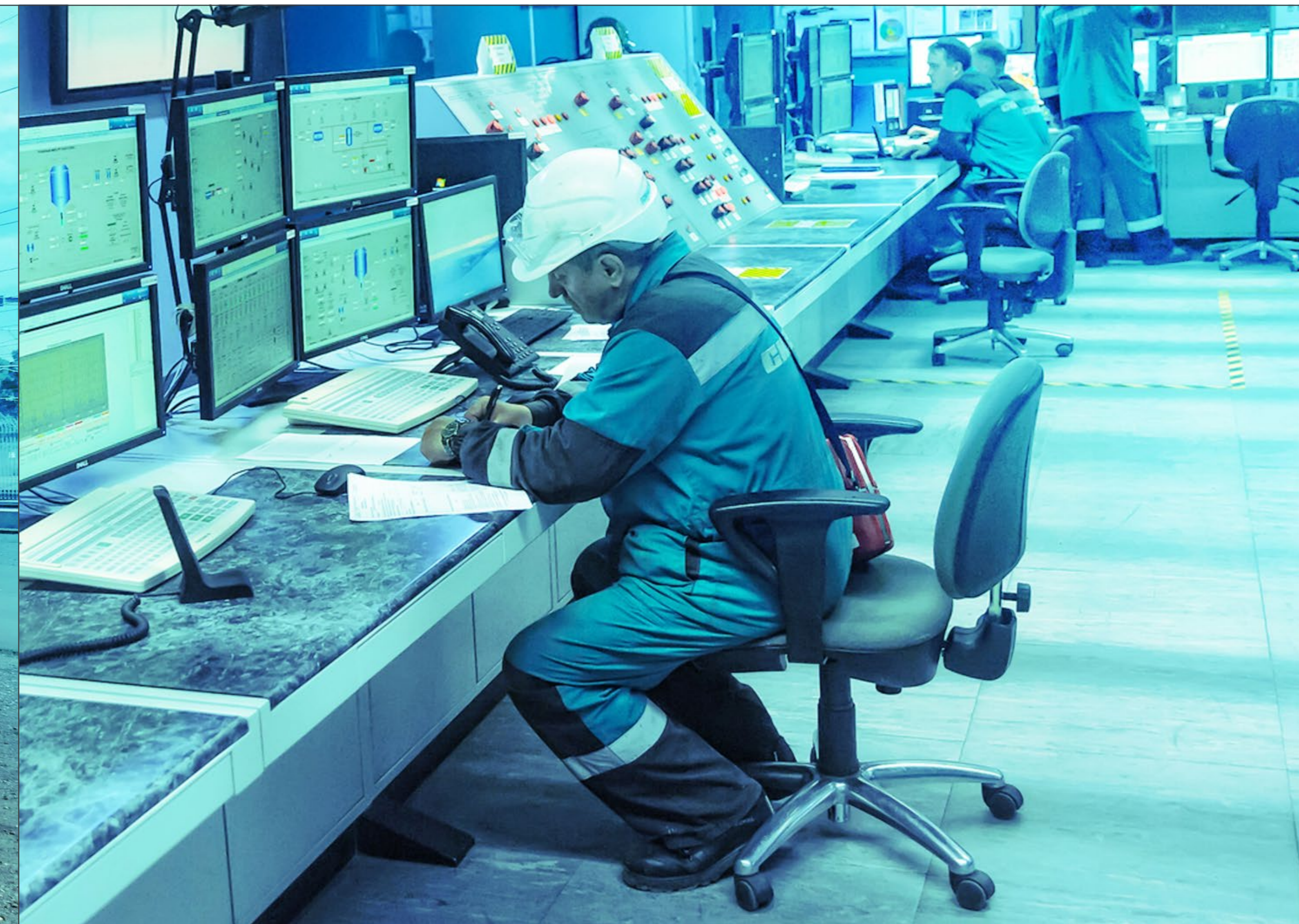


# Consulting, Audit & Advisory



## Engineering Consultancy

Electrical safety rules, HV and LV switching manuals and instructions, Procedures for HV Installation, Asset Management and Maintenance, Safe Systems of Work, Emergency Response, Arc Flash calculations.



## Workforce Consultancy

Training needs, competency & skill planning across the Rail Industry for construction, overhead, substation, control room operations. Workforce upskilling programs, future proofing strategies.



## Audits

For compliance with state and federal regulations or internal processes; systems audits for continuous improvement or engineering audits to evaluate maintenance of work procedures.



# SUB STATION

- FIRST AID STATION
- LOCK OUT & TAG OUT
- NO SMOKING

# Some of Our Projects



The Thomson Bridge electrical risk review led to clearer and practical safety rules that ensure our rail workers can work safely and do their jobs well.

**Rail Network Owner**

[View Case Study](#)



Thomson Bridge's customised HV operator training for our overhead, substation and signals staff has improved operational skills and knowledge.

**Department of Transport - SA**

[View Case Study](#)



Our auspice collaboration has ensured flexible programs to upskill our rail traction lineworkers.

**Category 5 Rail**

[View Case Study](#)



Providing a managed eLearning solution for Contractors to undertake inductions and achieve certification.

**Yarra Trams**

[View Case Study](#)



Agile course development for electrical safe access for Rail Tunnel construction & Level Crossing Removal.

**Metro Trains Melbourne**

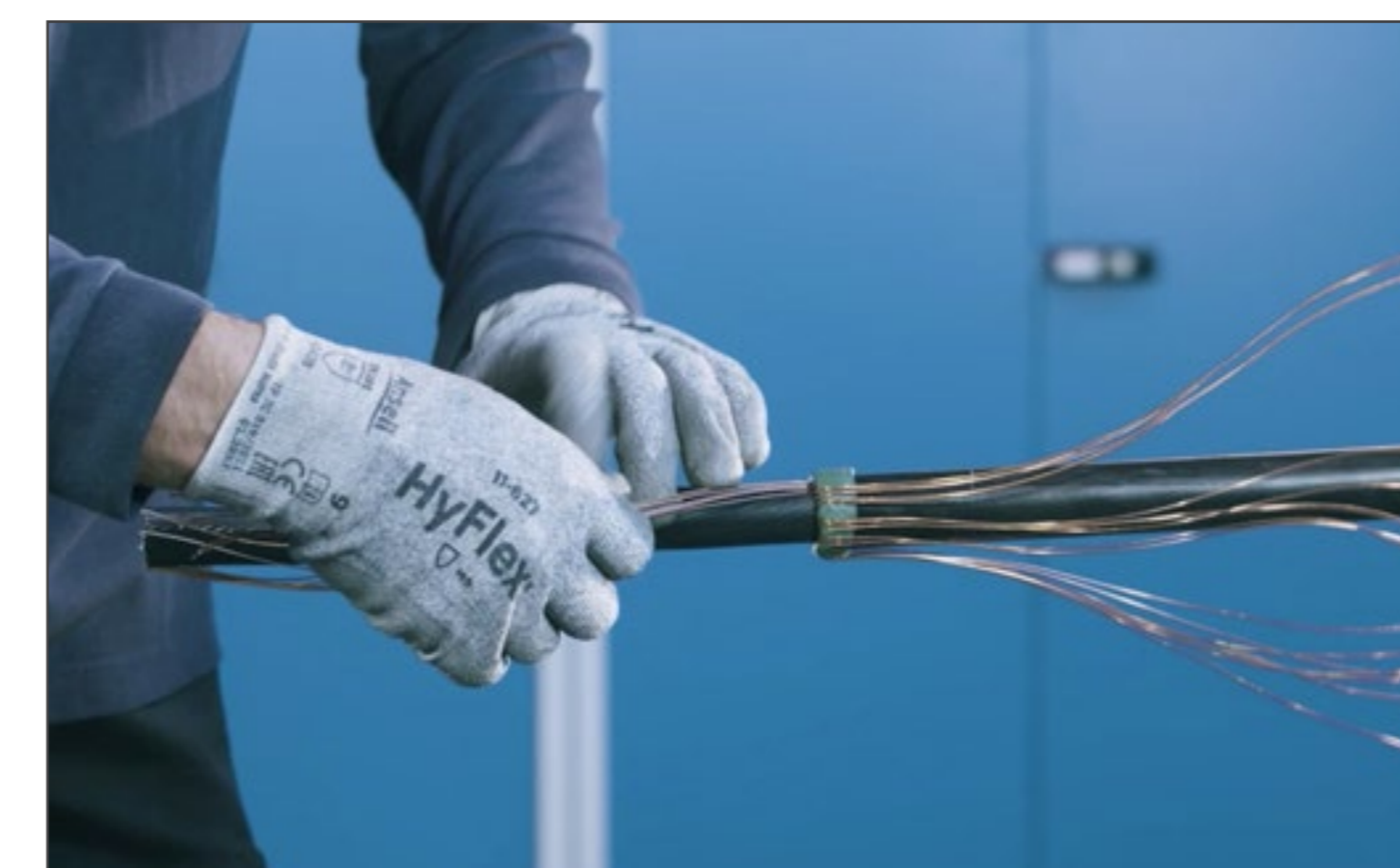
[View Case Study](#)



Building qualification courseware to address rail skills shortages in critical infrastructure works.

**Victorian Government through the 'Training for the Future' and the 'Workforce Training Innovation Fund'**

[View Case Study](#)



Partnering to provide industry workshops on underground medium voltage cable installation practices.

**NKT Cable Solutions**

[View Case Study](#)



Thomson Bridge is proud to have collaborated with industry to develop this important Arc Flash Management Guideline for Industry.

**Australian Energy Council Electrical Arc Flash Hazard Management Guideline**

[View Case Study](#)

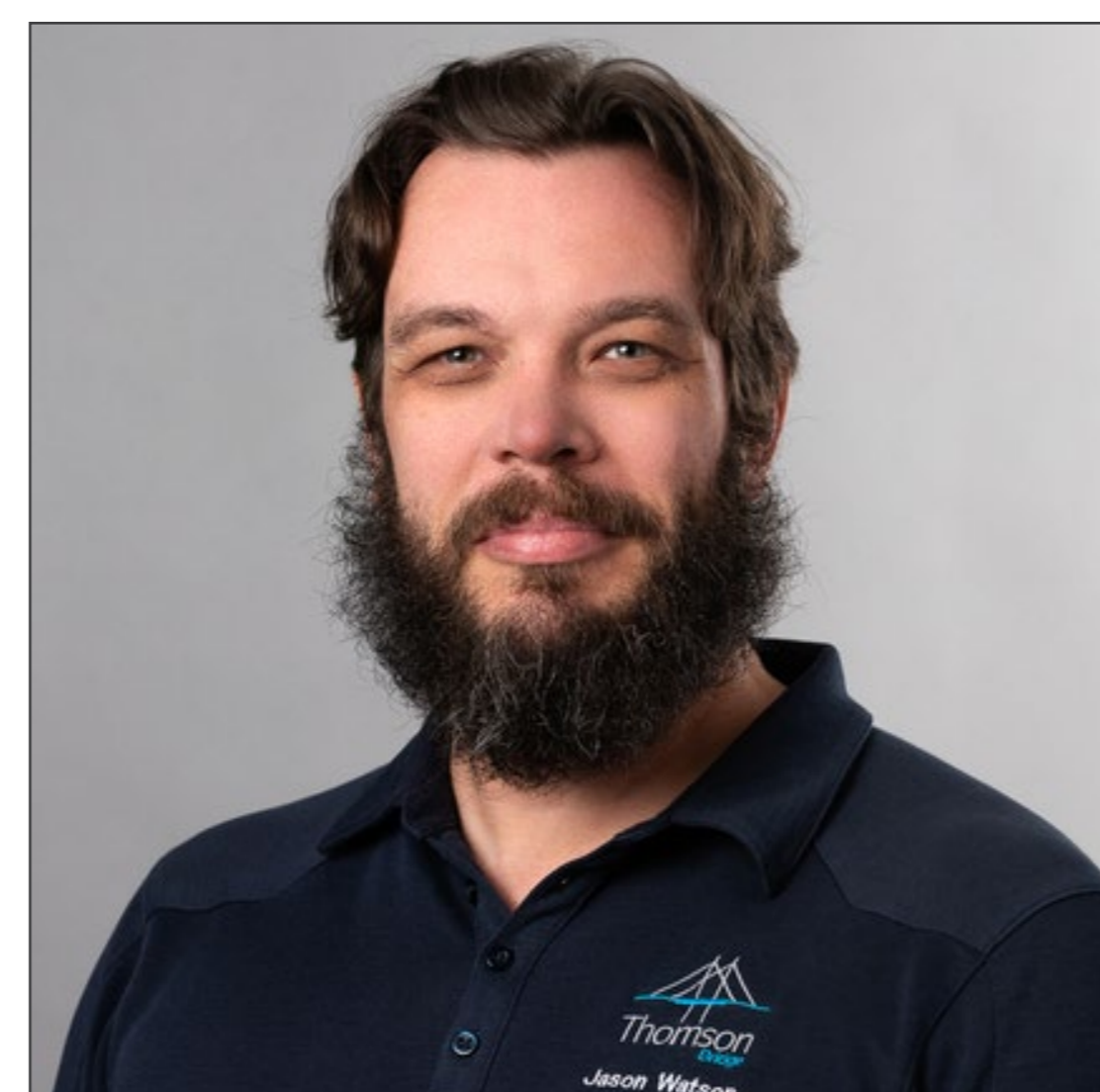
# Meet some of Our Team



## Lisa Parkinson

**Managing Director**

Lisa has a considerable working knowledge of the current Australian power and rail industry and the dynamics that drive networks, asset owners and the contractors within the rail, transmission, distribution and generation sectors. She has a strong background in finance and is responsible for the strategic direction of the Company.



## Jason Watson

**Director, Head of Advisory**

Jason is an Electrical Engineer with extensive practical, operational and maintenance experience having held senior positions in Australian and international organisations in the infrastructure and energy sector including EnergyAustralia, Acciona, AusNet and Transfield.



## Guy Broadbent

**Head of Training and Assessment**

Guy's operational experience includes senior roles with Energex, Zinfra and the Energy Market Operator (AMEO). He has managed large workforces which included the overseeing of training and competency for skills, safety and compliance for new entrants and experienced workers.



## Lachlan Towart

**Electrical Engineer - Rail Curriculum and eLearning**

Lachlan is an Electrical and Electronics Engineer, with a passion for electronics design and control systems and computer aided design. Lachlan works closely with our Rail Industry clients to design curriculum and digital media for application across eLearning inductions, short courses and qualifications.





## Mario Gauci

**Trainer and Asessor - Rail Networks**

Mario has over 40 years experience in the Rail Industry, providing Electrical Safety and Technical advice, developing work Methodologies, Electrical Authorisation for Switching, Rules and Procedures for various companies in the Heavy-Light Rail OHW systems.

Mario is a stalwart in the industry and is well known for his contribution to the delivery of the Cert III Rail Traction. Overhead line qualification.



## Jamie Hobbs

**Trainer – Rail Networks**

Jamie is a highly experienced rail industry Training Professional. His hands on operations experience of the hazards, risks and challenges of working track-side in an operational and construction setting provide valuable contextualisation for Learners. Jamie is a compelling communicator and is passionate about safety in high risk, high consequence environments. He delivers a wide range of rail safety and compliance programs.



## Peter Douch

**Manager - Electrical Networks**

Peter draws on decades of experience working in network and field operations, substation maintenance and testing. In his role as a High Voltage and Corporate Safety Specialist at Essential Energy (NSW) and now Thomson Bridge, Peter continues to develop electrical safety rules and implement system switching processes, protocols and training for the Rail and Power industry.



## Darren Linkins

**Manager – Electrical Networks**

Darren has over 40 years in the electrical network industry, and a deep understanding of training for skills and safety across light and heavy rail networks. During his long career with AusNet Services (Vic), Darren had oversight of procedures and work practices, provided advice on network control and safety, and conducted incident investigations and contractor audits.



## Lee Howard

**Manager - Electrical Networks**

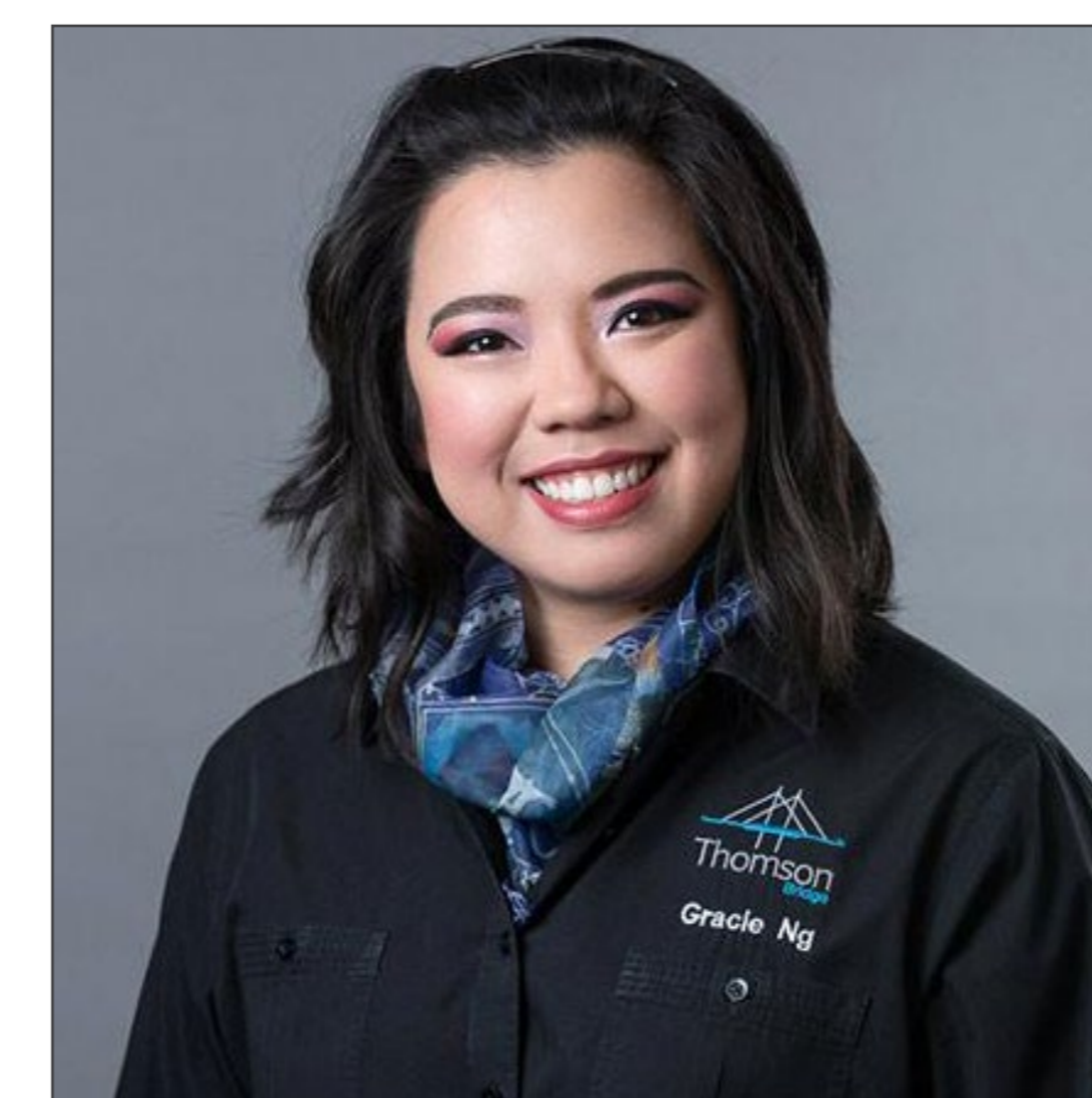
Lee has a broad knowledge of HV plant operations across networks for rail, transmission, distribution and industrial settings. Most recently he has worked with Western Power (WA) on distribution, transmission networks, including substations. In Ireland, he has managed large network upgrade projects and is a qualified electrician and switching operator.



## Jamie Ilton

**National Manager – ESI Programs**

Jamie has been responsible for conception and delivery of network projects for utility networks across Australia and New Zealand. He has worked as an HV backbone distribution operator on metal clad underground and Zone Substations. These career experiences provide Jamie with a solid grounding for the development of trade qualification pathways for new and experienced workers seeking the Certificate III in ESI – Rail Traction.



## Gracie Ng

**Team Leader – Technical Engineering & Design Services**

Gracie heads up the Technical Engineering and Design Team. As an Electrical Engineer, she draws on extensive knowledge of heavy industry electrical plant and electrified rail network infrastructure to oversee the development of training curriculum and technical documentation, including procedures, instructions, switching instructions, safe systems of work, and arc flash studies.



## Richard Harvey

**Head of Client & Corporate Services**

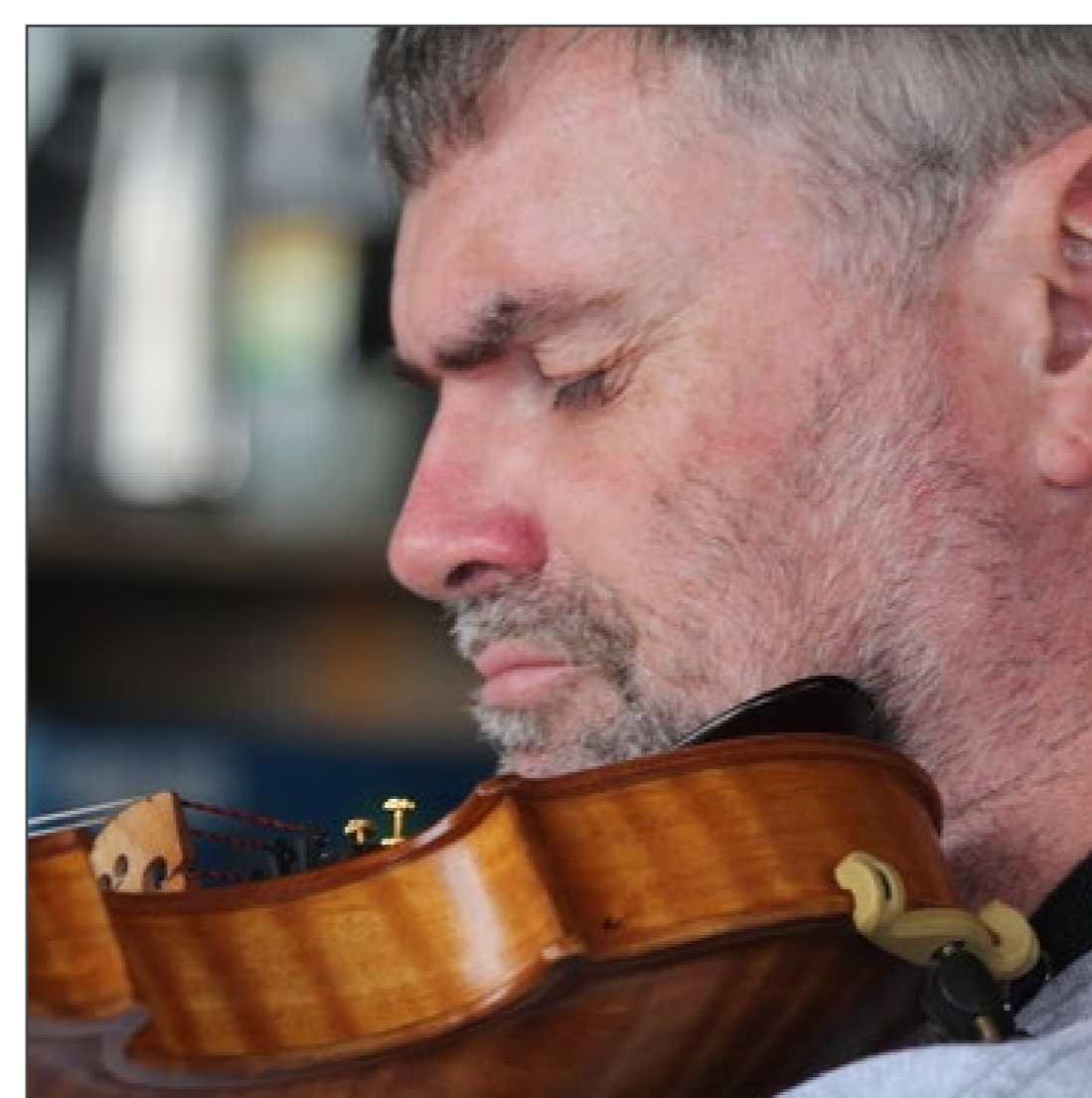
A skilled education professional, Richard has held senior technical L&D roles for national and international companies including AGL Energy and Suzlon. Richard is an advocate for Vocational Education and Training (VET) and designing workforce training programs that add value and are time-effective. He is a Fellow of the Australian Institute of Training and Development.



## Steve Morrissey

### Quality and Assurance Manager

Steve is an experienced quality assurance professional with expertise in the Vocational Education and Training (VET) sector. He has managed training departments within TAFE as well as quality assurance and governance for private RTOs. He has significant experience in quality auditing having been employed as a Principal Regulatory Officer with the Australian Skills Quality Authority (ASQA) with a period of time as the Acting Manager of Regulatory Operations.



## Terry Foxcroft

### Advisory Committee, Power Systems Protection Engineer

Terry has 40 years in the power industry including 31 with Snowy Hydro where he was responsible for all control, protection, excitation and governor systems across diesel, gas, hydro, transmission and distribution assets. He currently consults to the power industry and provides training in protection systems.



## Ken Wyper

### Advisory Committee

Ken draws on decades of experience as Senior Asset Engineer, Substation Systems Support Engineer and Technical Training Manager with TransGrid (NSW). These roles included monitoring and managing of high voltage asset condition, fault investigations, development of asset replacement and maintenance policies, procedures and work instructions.



Artwork piece by 14 year old Tomoki Harvey July 2021  
Take a look at our Art Space on our website:  
[Click Here](#)

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