

Electrical, Instrumentation & Control

Mainstream Engineering Ltd. (MEL) is an industrial engineering consultancy firm with offices in Kawerau and Nelson, New Zealand. We are also supported by MEL personnel based in Auckland and Christchurch.

Our experienced Electrical, Instrumentation & Control (EI&C) team have a combined knowledge and experience base of over 350 years and with the majority of our professionally qualified EI&C engineers coming from a trade and industrial background, we are able to influence the study and design outcomes to safely deliver maintainable, fit for purpose solutions on time and within budget for our customers.

Being mobile and responsive, MEL staff work collaboratively with you, applying both technical expertise and practical experience to provide quality engineering and project management support.

We apply what we are good at to provide solutions that allow you to focus on your business and what you are good at. Mainstream Engineering Ltd. are considered by our clients as motivated, practical, solutions-orientated providers

Our team can provide:

- Electrical, Instrumentation & Control – studies, detailed engineering and design, construction, commissioning and closeout
- Project management services
- Shutdown/outage planning and supervision

We have professional and chartered engineering personnel, and have team members certified and experienced in:

- Full project lifecycle Electrical, Instrumentation & Control services
- Advanced Process Control design
- Dynamic simulation and Operator Training Simulators
- Functional Safety Engineering (TüV Certified)
- Industrial network design and implementation
- Safety Instrumented Systems design and implementation
- Hazardous area design and implementation
- Electrical installation inspections
- Hazardous area installation inspections



Industry Experience

Mainstream Engineering Ltd.'s Electrical, Instrumentation & Controls team have experience in the following industries:

- Pulp and Paper: Kraft, TMP, Newsprint, Tissue, Recycling
- Water & Wastewater
- Power Generation: Geothermal, Hydro, Nuclear (Commissioning / Decommissioning)
- Oil & Gas: Traditional, Non-traditional
- Meat Processing & Packaging: Poultry
- Mining: Iron Ore, Coal, Materials Handling
- Petrochemical
- Steel manufacturing
- Pharmaceutical
- FMCG (Fast Moving Consumer Goods)
- Food & Beverage: Dairy (Processing, Drying, Packing, UHT), Breweries, CIP systems



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