

TJAART VAN DER WALT (TJI.CO.NZ)

4 Plymouth place Fairview Downs , Hamilton NZ 3214
Res 07 853 8572 Cell 027 4300544 tvanderwalt@xtra.co.nz tji.co.nz

CERTIFIED REGISTERED DUAL TRADING TECHNICIAN

INDUSTRIAL INSTRUMENTATION AND PROCESS CONTROL WITH HAZARDOUS AREA ELECTRICAL PRACTISING LICENSE

Multi-disciplined high technology experience with +10 years track record of successful performance installing, servicing and repairs to complex electronic industrial, scientific measurement and control devices.

Proven ability to troubleshoot complex systems and sub systems down to the component level.

Thrives in a high-pressure, deadline-oriented atmosphere; able to resolve issues alone or in cross-functional team environments.

Highly developed interpersonal communication skills, able to act effectively in client facing situations.

Proactively identifies trends and problem areas, able to diagnose end user issues.

Proficient in MS-DOS, MS Windows and Outlook Operating Systems.

SUMERY

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| 1. McKay Electrical | Maintenance services for Kinleith Paper Mill Electrical and Instrumentation. |
| 2. T.J. Instrumentation Limited | Maintenance services for Kinleith Paper Mill Electrical and Instrumentation. |
| 3. T.J. Instrumentation Limited | Maintenance services for NZ Steel Mill Electrical and Instrumentation. |
| 4. Broadspectrum Limited | Projects for Water Care upgrades and new development areas power supplies. |
| 5. Hays Recruitement | Hooking up electrical fittings to cabling for lighting and outlet sockets in EDL warehouse. |
| 6. Power-up and Aotea | Installation of electrical fittings in newly build Homecare complex in Pokekohe NZ. |
| 7. Electriserve Auckland | Rebuilding OI glass factory no. 3 furnace and machine section cabling and instruments. |
| 8. JLE Australia | Building Rocklands copper mine project Electrical and Instrumentation work in Cloncurry QLD AUS. |
| 9. JLE Holdings | Certifying Instruments in Hazardous gas areas at Vector (First Gas) natural gas transmission line sites. |
| 10. Wells I&E | KUPE and Paritutu Maintain and upgrade the Offshore Gas Facility and huge condensate storage tanks. |
| 11. Transfield Worley Limited | Senior I&E Construction Engineer and Auditor for Transfield Worley Limited and SHELL TODD projects. |
| 12. Wells I&E | Senior instrument technician for building KUPE NLG Taranaki Onshore production facility. |
| 13. Electrix Limited Taupo | Trust Power reticulation control & line protection I&E technician helping with mechanical maintenance on switchyard line droppers and breakers. Megger and timing tests complete with transformer load and doble / ducktor test on breakers, bussbars and transmission equipment.
Upgrade Pentane binary 5MW, Geothermal steam turbine 137MW and Hydro-power generators. |
| 14. Quality Bakers of Waikato | Service engineer for bakery equipment, conveyor maintenance and flouer sampling person. |
| 15. ABB Hamilton | Instrument valve actuator and valve positioner refurbishing technician for CHH Tasman paper mill. |

RELEVANT SKILLS

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| 1. PLC maintenance I/O for DCS system | 6. Control valve and positioners, switches, transmitters. |
| 2. PH and consistency meters and probe calibrations. | 7. Substation high voltage transformer instrumentation. |
| 3. Conductivity meters and probes calibration. | 8. Step-up motors and buchholz switch test on transformers. |
| 4. Silo level measurement and control circuits | 9. Vibration, protection, and shaft positioning probes on steam turbines. |
| 5. Digital control Circuits. | 10. Power generation turbine excitation and speed control. |

PROFESSIONAL EXPERIENCE

Kinleith Paper Mill Sep 2021 – Nov 2023

McKay Electrician and Instrument Tech

1. Maintain, upgrade and service Kinleith Paper Mill's instruments and electrical equipment.
 2. Maintain and perform Inspections on Kinleith Paper Mill's instruments and electrical equipment.
 3. Maintain, upgrade and service Kinleith Paper Mill's Recovery Boiler's instruments and electrical equipment.
 4. Planned Calibrations of Consistency, PH and Conductivety meters for Kinleith Paper Mill plant.
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Pacific Steel Mill Feb 2019 – May 2019 (Plant Upgrade)

Subby Electrician and Instrument Tech

1. Build, upgrade and service Steel Mill's water treatment plant instruments and electrical equipment.
 2. Change-over and perform Inspections on Steel Mill's instruments and electrical equipment.
 3. Install and terminate Steel Mill's upgrade Junction panels, PLC cards for instruments and electrical equipment.
 4. Planned calibrations of Pressure, Level, PH and ORP meters for Steel Mill's Water Treatment plant.
 5. Commission Steel Mill's Melter upgraded instruments and electrical pump motor equipment.
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Kinleith Paper Mill Jun 2017 – Sep 2021

Subby Electrician and Instrument Tech

1. Maintain, upgrade and service Kinleith Paper Mill's instruments and electrical equipment.
 2. Maintain and perform Inspections on Kinleith Paper Mill's instruments and electrical equipment.
 3. Maintain, upgrade and service Kinleith Paper Mill's Recovery Boiler's instruments and electrical equipment.
 4. Planned Calibrations of Consistency, PH and Conductivity meters for Kinleith Paper Mill plant
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NZ Steel Mill Jun 2017 – Sep 2021 (Shut Down Days)

Subby Electrician and Instrument Tech

1. Maintain, upgrade and service NZ Steel Mill Melter instruments and electrical equipment.
 2. Calibrations of water PH, Conductivity meters for NZ Steel Plant.
 3. Maintain, upgrade and service NZ Steel Rolling Mill's instruments and electrical equipment.
 4. Maintain, upgrade and service NZ Steel Colour Steel plant's instruments and electrical equipment.
 5. Maintain, upgrade and service NZ Steel Kiln's instruments and electrical equipment.
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Broadspectrum Limited Jun 2017 – Dec 2017

Subby Electrician and Instrument Tech

1. Upgrade and commission Water Care Plant TUAKAU Reservoir pumping expansion projects.
 2. Tie-in and connect streetlights and House section power points to Keumeuw development area power cables.
 3. Wire and commission transformers and main circuit breakers for motor control centres.
 4. Testing, point to point and meggering cables and cores between pump motors and VSD drives.
 5. Calibrations of PH and conductivity meters and control instrument maintenance.
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Hays Recruitement, AKL Jan 2017 – Jun 2017

Electrician and Instrument Tech

1. Upgrade and commission Water Care Group assets expansion projects.
2. Tie-in and connect street lights and section power points to new development area power cables.
3. Wire and commission transformers and main circuit breakers for motor control centres.
4. Testing from point to point and meggering cables and cores between pump motors and VSD drives.

Hays Recruitement, AKL Nov 2016 – Jan 2017

Commercial Electrician

1. Fit high bay lights into newly build warehouse building in Business Park at EDL.
2. Fit wall lights into newly build warehouse building in Business Park at EDL.
3. Fit outlet wall sockets into newly build warehouse building in Business Park at EDL.
4. Testing from point to point and meggering cables and cores.

Power-up, Pokeno, Waikato Nov 2016 – Nov 2016

Commercial Electrician

1. Fit ceiling lights into newly build health care building at Highbrook site.
2. Fit wall lights into newly build health care building.
3. Fit outlet wall sockets into newly build health care building.
4. Testing point to point and meggering cables and cores.

Electriserve, Auckland, Waikato Aug 2016 – Nov 2016

Industrial Electrician

1. Build and install Cable racks at OI Glass Factory.
2. Pulling cables to pumps, motors and panels.
3. Glanding and terminating cables and cores.
4. Testing from point to point and meggering cables and cores.

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JLE Holdings, Auckland, Waikato Feb 2016 – Apr 2016

Instrument and Electrical Technician

1. Recruited for instrument installation and cable hookup of Holcim Auckland port cement off-loading facility.
2. Connected measurement and control systems on automated truck loader systems.
3. Done commissioning on the installation and troubleshoot faults.
4. Worked with limited schematics and documentation, interfaced with customers.

JLE Holdings, Auckland, Waikato May 2015 – Feb 2016

Instrument and Electrical Technician (Seconded to JLE Australia)

1. Marking up positions for installing Junction Boxes, Valves, limit switches, level, pressure and temperature instruments.
 2. Resolving faulty installations of several equipment
 3. Applied Good time management skills to allow necessary presence on site to ensure problems were resolved timely.
 4. Recognized by client for pointing out erroneous installation of flow meter positions in pipelines.
 5. Done a Senior First Aid refresher course with the electrical (Construction White Card) site safe and testing procedures.
 6. Generated high customer satisfaction by translation of Chinese manuals to English for calibration procedure purposes.
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JLE Holdings, Auckland, Waikato Aug 2012 – May 2015

Instrument and Electrical Technician (Seconded to Vector Limited)

1. Alone worker Instrument and Electrical Natural Gas pipeline transmission Technician.
 2. Done a Senior First Aid refresher course with the electrical site safe and testing procedures team.
 3. Maintain accurate LNG flow meter testing, Gas Chromatograph calibrations, Pressure and Temperature point calibration checks on Gas transmission pipeline system while pumping natural gas across the North Island to reach every town's gas network.
 4. Installed domestic wiring at new gas pipeline metering huts for power outlets and lighting.
 5. Installed instrumentation and control systems in Hazardous gas areas at Vector's Natural Gas Transmission sites.
 6. Maintaining and upgrading Gas compressors, Gas fired engines, station control systems and transmission compounds.
 7. Performed on-site troubleshooting of Gas volume and quality reading Corrector Chromatographs.
 8. Maintained automation controls for gas metering hut compounds on planned maintenance schedules.
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Wells Instrument & Electrical, Taranaki Jan 2012 -- Aug 2012

Instrument and Electrical Technician (SHELL TODD Projects)

1. Maintaining flow metering and temperature points for Paritutu Tank Farm Loading lines leak detection system while loading LNG and condensate to and from the carrier ships to ensure protection of the environment.
 2. Maintain and upgrade the huge storage tank levels, pipeline flow meters and hazardous area control valve systems.
 3. Supervised and controlled JSEA and permit documents for 10 Painters, refurbishing and painting condensate storage tanks.
 4. Generate permit to work for 4 Fence refurbishing, earth bonding and painting workers.
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Transfield Worley Limited New Plymouth Jul 2010 – Jan 2012

Senior I&E Construction Engineer on SHELL TODD Projects.

1. Managed contractors installing a flow meter and temperature points for Paritutu Tank Farm Loading line leak detection system.
 2. Managed contractors while upgrading the Newton King Warf's McKee / EIL Loading line leak detection system.
 3. Generate complicated lifting plans for Titan cranes at SHELL TODD facility over live plant and pipelines.
 4. Generated ITR, ITC, QIS for mechanical quote purposes, organising work contracts and execution.
 5. Done a Senior First Aid refresher course with the electrical site safe and testing procedures.
 6. Prepared project safe working and environment protection Work Packs for execution of the projects.
 7. Managed contractors installing a Nitrogen blanketing control system for the storage tank at the Pohokura LNG production facility.
 8. Assisting in calibrations, commissioning and sign-offs to hand over the projects.
 9. Managed contractors at the SHELL TODD MPS plant project removing redundant equipment and down scaling process.
 10. Estimating project man hour costs and engineering costs of running work processes.
 11. Prepared Work Packs for redundant Instruments, complete with demolition and removal preparations.
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Wells Instrument & Electrical New Plymouth Jun 2008 – Jul 2010

Senior Instrument Technician (KUPE NLG Production Facility)

1. Generate Instrument Test Reports and Installation QA/QC control document systems.
 2. Pre-check with ITR, calibrate, certify Field-bus and HART Protocol measuring Instruments and control valves.
 3. Supervised and controlled JSEA and HSE 6 installers and mark-up the positions in the plant for installers to install Instruments.
 4. Request the Issue of instruments from stores for plant installation and wiring.
 5. Assure correct installation of process points, impulse lines and cable type for instruments and control valves.
 6. Update document records, redline drawings and maintain filing system.
 7. Consult and advise other trades concerning installation of instruments and cables.
 8. Loop check and commission Delta-V distributed control system to interface with other instrumentation.
 9. Q&A Hazardous area required standards, enclosures, cable glands and instrument certs in explosive areas.
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Electrix Limited Taupo Branch Mar 2006 –May 2008

Control & Protection Technician (Passed NZ Electrical Registration and practical licecse test)

1. Monitor and manage Geo-thermal area instruments, valves and control systems for power generation and resource concent.
 2. Plan, Install and upgrade electrical control systems in Transpower generation switch yards and stations.
 3. Completed domestic lighting and outlet socket wiring at a new extention to Rangipo correctional facility.
 4. Completed domestic lighting and outlet socket wiring at new housing complexes in Taupo.
 5. Fault-find and upgrade protection relay controls and faulty transmission power line protection systems.
 6. Update records, redline drawings and maintain filing system and data.
 7. Download protection monitoring Cell Relay data for Transpower sub stations power line protection circuits.
 8. Upgrade Tecron clocks for RTU and other protection units.
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Quality Bakers of Waikato Hamilton Jan 2006 – Mar 2006

Service and maintenance engineer (was not yet electrically registered in NZ)

1. Maintain the process control systems and repaired baking equipment in the bakery.
 2. Repair broken conveyor belts, drive-motors, gearboxes and position control systems.
 3. Strip, clean and overhaul control valves, positioners and I/P's.
 4. Maintain and optimize dough mixing preparation conveyor systems, machines and baking ovens.
 5. Maintain boiler water PH, Conductivity and flour line filters for quality and health control analysis.
 6. Maintain walk-in refrigeration units and air / ammonia compressors.
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ABB Hamilton based at CHH Tasman Mill Kawerau Aug 2005 – Dec 2005

Instrument Valve Technician (was not yet electrically registered in NZ)

1. Maintain the control valves in the plant with planed maintenance system.
 2. Re-stock stores with refurbished and calibrated control valves and positioners.
 3. Strip, clean and assess removed control valves, positioners and I/P's.
 4. Acquire quotations from suppliers for valve spare parts.
 5. Order parts, assemble and calibrate valves to specification.
 6. Perform certified hydro pressure and leak tests on valves.
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EDUCATION AND CERTIFICATION

- Iscor steel training centre in South Africa
Industrial instrumentation and process control Level 3 1974 - 1978
Outcome: Passed trade test and received a Red seal certificate.
- Western institute of technology NZ
Installation and maintenance in Hazardous areas Level 5 2006 & 2014
Outcome: unit standards 17058 / 17053 / 17059 / 17056
- ETCO Training centre Rotoroa NZ
Registered Electrician E 249533 Level 4 2007
Outcome: Practicing electrical license
- HSE Building in New Plymouth NZ
Health & Safety Level 3/2/1 2009
Outcome: Certified with unit standards 17588 / 17593 / 497.

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- Site safety 17599 / 3058 648313
Health & Safety Level 3/2/1
Outcome: Certified with unit standards 17588 / 17593 / 497. 2016
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TRAINING COURSES

Supervisor enhanced safety training.	2011
Hazards and Effects Management Process trained.	2010
Certifying gas transmission pipeline gas chromatographs and process measurement equipment.	2012
Permit to work, Offshore Oilrig BOSIET (OPITO) trained.	2010
HIANZ working at heights certified, Confined space trained, Atmospheric Air / Gas Testing.	2010
NZ Electrical Registration E 249533	2023
Senior First Aid refresher course with the electrical site safe working and testing procedures.	2016
WA Electrical License EW 173462	2013
Site safety card I.D. 648313	2016
Construction White Card 1874756	2015
Gladstone Work Safely at Heights RIIWHS204D.	2015
AUS Drivers License 115 046 670	2016
NZ Drivers License DG 880966 (Renewed)	2016

LANGUAGE

English – Read, Write & Speak

Lived, Qualified and Worked:

South Africa: Steel Melters, Pulp & Paper mills, Petrochemical facilities and gold refinery.	Jan 1974 – Mar 2002
Botswana: Open Pit Diamond recovery mine.	Apl 2002 – Jul 2005
New Zealand: Oil and gas, Power Grid Power generation, Pulp Mills and Steel Mills.	Jul 2005 – Apl 2018
Australia: Cloncurry Copper mine Electrical and Instrumentation project.	May 2015 – Feb 2016
New Zealand: OI Glass factory upgrade, Commercial / Domestic buildings fittings and wiring. Steel Mill, Paper Mill and Fontera.	Mar 2016 – Nov 2016

Referees:

Andy Thomason	Anglo Tasman	0272829411
Brendan McCowatt	Vector Limited	027 223 6062
Dave Lean	Vector Limited	027 231 1680
Mark Thompson	JLE Holdings	06 758 7050
Craig Bryden	JLE Holdings	09 275 7394
Louis Deetlefs	McKay electrical	0276112546