

Position details

Title of Position:	Trainee Transmission System Operator
Reports to (position title):	Manager Control Room Operations
Division:	Network
Function:	Network Operations
Number of Direct Reports:	NIL
Grade:	7

Health, Safety & Wellbeing

ElectraNet is committed to a Safety-First culture and a work environment promoting the health, safety and wellbeing of all workers. To sustain this culture, all leaders are required to implement and maintain the areas of ElectraNet's safety management system under their control, where the health, safety and wellbeing of all workers comes first while ensuring full compliance with all legislative and policy requirements.

All employees are required to contribute to the Safety-First culture by exercising their duty of care to themselves and one another, by working safely, by adhering to all reasonable safety and security instructions, by using all equipment provided in accordance with safe and secure work methods and by promptly reporting any unsafe working practices, hazardous working conditions or security threats.

Position Overview

The Trainee Transmission System Operator (TTSO) will work towards ensuring the highest level of transmission network reliability by developing their competency in the real-time operation, monitoring, coordination, and control of South Australia's transmission system.

Working under direct supervision, the TTSO will also be involved in continuously monitoring the high-voltage distribution network within the area of direct oversight and support the provision of external operational services.

Success in this role is defined by a strong technical understanding of high-voltage plant and equipment switching, along with an awareness of field operations. This technical knowledge must be complemented by professional communication skills, the ability to build relationships across broad stakeholder groups and the capacity to respond to critical events in a calm, deliberate and methodical manner.

Key Responsibilities**Operational & Technical**

In addition to developing a sound understanding of the systems, processes and frameworks required to ensure the safety of personnel, plant, and the network, the TTSO will working under direct supervision to develop competencies in the following areas by supporting the following tasks and activities:

- An understanding of Management of risk across all facets in network operations
- Supervision of operational activities within the Control Room
- Planning, coordinating, and controlling switching operations of the transmission system
- Directing and controlling field personnel in switching and fault finding, ensuring the safety of field personnel is of the highest priority
- Initiating corrective action during system disturbances and equipment malfunction

- Initiating pre-emptive action to reduce system impact from a foreseeable event
- Providing real time control and operation of the Transmission network for AEMO as per agency agreement
- Providing real time commitment, loading, and monitoring for external services as per agency agreements
- Under the guidance of an experienced Transmission Network Operator (TSO) and at AEMO's direction, provide direction to SA Power Networks Network Operations Centre during major network events, to ensure the real time commitment of distribution network reactive power and voltage control equipment to meet customer requirements
- Real and reactive power flows, system voltage profiles, system plant and weather conditions to assure the safe and secure condition of ElectraNet assets
- Monitoring and control of the performance and condition of South Australia's transmission system
- Monitoring and control of the HV distribution network within the area of direct oversight
- Co-ordination with distribution, load, and generation customers in the operation of, and access to their assets.
 - Proactively contributing to business and system improvements associated with operating manuals, procedures, instructions, and documentation
 - HV Switching matters across the business
 - Transmission Asset Access Manual (TAAM) matters across the business
 - EMS Alarm Management and support and grow the EMS platform to offer business improvements

Behavioural

- Build and maintain strong working relationships with and between internal and external stakeholders, delivering a high level of customer service.
- Create and develop a respectful workplace environment that values cultural diversity, innovation, open discussion and cross functional collaboration to help drive high performance.
- Lead by example; role model desired behaviour and priorities, demonstrate personal accountability for self-development and for achieving quality and timely result.
- Demonstrate behaviour that is consistent with ElectraNet's values, Code of Conduct and Acceptable Use of Technology Resources Policy while performing the role in a professional and ethical manner.
- Promote safe work practises that support the safety of all workers and the security of ElectraNet's assets, proactively reporting safety incidents, near misses and security threats.

Significant Working Relationships

- ElectraNet Corporate Services
- ElectraNet Network, Assets, and Delivery divisions
- SA Power Networks (SAPN)
- Australian Energy Market Operator (AEMO)
- SA Generation
- Murray Link
- Major Customers
- Maintenance and Construction Contractors
- Other TNSP's

Equipment & Technology Used

- SCADA - EMS
- Power Flow
- Alarm Management
- One-lines & System Overviews
- Single Line, Schematics and Wiring Diagrams
- SAP
- Events Log
- Weather Monitoring applications
- AEMO NOS

Selection Criteria

Knowledge & Experience

Essential

- Minimum 5 years' experience in the Electricity industry with demonstrated knowledge of legislated industry requirements (National Electricity Rules, OTR, AEMO Guidelines)
- Demonstrated approach to safe work methodology and risk assessment
- Demonstrate an ability to work under supervision in a high-pressure environment
- Demonstrate knowledge of the operation and control of high-voltage power systems and equipment
- Awareness of ElectraNet Switching rules & procedures
- Awareness of ElectraNet Transmission Asset Access Manual
- Experience working in the High Voltage Transmission/Distribution/Generation industry
- A demonstrable approach to creating and enforcing safe systems of work
- Understanding of the Australian Energy Market, its purpose and operation
- Previous HV control room experience (considered)
- Advanced Knowledge of substation and transmission system components, performance and operation
- Knowledge of transmission system reliability and performance criteria
- Knowledge of substation and transmission system components, performance, and operation, particularly in reference to the South Australian Transmission Network
- Agility in working across many tasks concurrently and on critical high-risk work activities with thoughtfulness and clear intent
- Applying theoretical and practical knowledge to solve commonly encountered or unique and complex problems
- Well-developed analytical, investigation and problem-solving skills
- Advanced written and verbal communication skills including the ability to provide clear and logical direction in highly critical situations
- Ability to produce quality technical reports on system events
- Working on shift roster or projects as required coupled with a flexible approach to working hours and after-hours commitments

Qualifications

- Associate Degree in Electrical Engineering or higher with proven control room experience, or
- Diploma in Electrical Engineering or higher with proven High Voltage Switching Experience.
- Valid Australian Car Driver's Licence (or eligibility to obtain one)

- Currently holds or has previously held an ElectraNet CAT 2 switching licence (essential)

Background Checks

- Pre-employment checks, including background and security checks (such as global criminal checks) are required for this position, completed prior to commencement and repeated on a regular basis after appointment.

NOTE: Copies of the above listed qualifications/licences/certificates are required as evidence on appointment.