ROLE STATEMENT

Position Title:	Operational Technology (OT) Engineer		
Review Date:	July 2024	Division:	ICT
Classification:	Level 2	Department/Section:	Market Operations & Technology
Supervisor:	Manager, ICT	Location:	Adelaide SA

Role Purpose:

The Operational Technology (OT) Engineer is responsible for the effective management of hardware and software associated with industrial control systems (ICS) across Epic Energy's operational assets.

Accountabilities:

1. Lead the planning, testing, delivery, integration and upgrades of Epic Energy's OT applications portfolio, with a particular focus on Supervisory Control and Data Acquisition (SCADA) systems

2. Manage the maintenance of SCADA systems, which involves:
   a. Performing routine maintenance, updates and patches to ensure SCADA operates optimally and securely and aligns with operational policies and procedures;
   b. Troubleshooting complex problems and collaborating with technical experts and vendors in various domains;
   c. Developing, reviewing and updating operational procedures and processes;
   d. Undertaking routine data integrity auditing, and maintaining data on SCADA's performance and capacity;
   e. Collaborating with colleagues to integrate SCADA systems with other industrial equipment, sensors and devices;
   f. Ensuring seamless data communication and interoperability between SCADA systems and other control systems; and
   g. Testing disaster recovery and business continuity functions of SCADA operations

3. Collaborate with the ICT Cyber Security Analyst to implement and maintain a robust cybersecurity measure to protect SCADA systems from external threats

4. Ensure systems remain compliant with relevant industry standards and regulations (eg: AESCSF, NIST, ISA/IEC 62443)

5. Monitor real time data and analyse historical from SCADA systems to identify anomalies or trends, and provide recommended solutions to optimise performance and inform predictive maintenance

6. Act as Epic Energy's subject matter expert for hardware and software components, including Programmable Logic Controllers (PLCs), Remote Telemetry Units (RTUs), SCADA and Human-Machine Interface (HMI) applications

7. Develop, measure and monitor Key Performance Indicators (KPIs) for SCADA systems

8. Monitor and measure the quality, integrity and accessibility of real-time information for both monitoring and control, including regulatory data compliance

9. Undertake technical assessment and application of approved changes and new software as required, and work closely with end users to develop their self-service capabilities

10. Identify, translate and document stakeholder requirements into technical specifics for solution selection and implementation

11. Collaborate with colleagues to understand operational requirements and develop suitable solutions

WHSE Requirements:

- Report hazards and incidents in a timely manner and in accordance with Epic Energy WHS procedures
- Intervene in unsafe conditions and unsafe acts and promote safe behaviors in the workplace
- Comply, so far as you are reasonably able, with any reasonable instruction provided by Epic Energy in relation to WHS matters
- Do not knowingly engage in wilful or reckless acts and/or behaviour that may have an adverse effect on your own health and safety or the health and safety of your colleagues
- If required to undertake field work, comply, so far as you are reasonably able, with all Epic Energy safe systems of work and WHS procedures relating to field-based activities
- Positively engage in cooperation, communication and consultation in matters relating to and supporting WHS initiatives

Selection Criteria:

Essential

- Undergraduate degree in Electrical Engineering or relevant technical discipline (eligible for membership of Engineers Australia)
- Demonstrated expert knowledge of and experience working with SCADA systems and technology, including undertaking preventative maintenance, and troubleshooting control systems
- Demonstrated strong understanding of ICT infrastructure, maintenance, protocols cyber security considerations and data monitoring
- Demonstrated experience in data management methods including capacity to manage, check and process complex data sets
- Demonstrated experience in developing new displays including CAD style/EMS system databases using EMS tools and/or SQL
- Demonstrated experience in analysing data and preparing reports for various stakeholders

- Demonstrated understanding of engagement with service providers and contractors
- Excellent planning and project management skills and experience
- Demonstrated ability to interpret business or user requirements to develop effective solutions

Desirable

- CPEng, or actively engaged in attaining accreditation through Engineers Australia
- White Card certification

Special requirements:

- Current and unencumbered Australian driver's licence
- Willing and able to travel intra/interstate, including in remote field locations
- Willing and able to provide support to out of hours emergencies, if required