### SKILLS FRAMEWORK FOR ENERGY AND POWER

**SKILLS MAP - NETWORK DEVELOPMENT SENIOR TECHNICAL OFFICER**

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<th>Sector</th>
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<td>Sub-sector</td>
<td>Gas</td>
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<td>Track</td>
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<td>Sub-track</td>
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#### Job Role Description

The Network Development Senior Technical Officer contributes to the development of gas transmission and/or distribution project concept plans and specifications. Guides junior team members in site activities and verifies the construction activity records and project progress reports. He/She supervises the installations, testings and commissioning of meters, sensors and metering stations, and monitors project expenses against the approved budget. He liaises with relevant authorities regarding approvals and other project requirements. To develop staff capabilities, he conducts on-the-job training when required and identifies appropriate training and development courses for staff.

He issues work orders for Permits-to-Work and supervises works according to Safe System of Work (SSoW) practices. In times of emergency, he implements emergency response plans and relevant safety procedures, and supervises the Emergency Response Team on site incident management. He occasionally works at construction sites for gas transmission and/or distribution network development projects.

He is a good team player who collaborates and guides team members and contractors. He is detail-oriented and analytical in resolving issues and ensuring the successful installations of equipment.

### Critical Work Functions and Key Tasks

#### Critical Work Functions

- **Administer safe work practices**
- **Manage responses to emergencies and crises**
- **Manage network development projects**
- **Develop network metering equipment**

#### Key Tasks

- Supervise works according to Safe System of Work (SSoW) practices and safety regulations
- Supervise contractors on safe work practices
- Conduct safety checks in the workplace
- Implement emergency response plans and relevant safety procedures
- Supervise the Emergency Response Team on site incident management
- Contribute to the development of concept plans and project specifications according to statutory, engineering, quality and customer’s requirements
- Guide junior team members on site activities of development projects
- Verify construction activity records and progress reports
- Monitor project expenses against approved budgets
- Coordinate with shippers and end users for project requirements
- Liaise with relevant authorities to resolve project-related issues and seek approvals
- Prepare tender specifications for bulk fixing and replacement of meters and sensors
- Liaise with contractors on metering and sensor requirements pertaining to the submissions of meter layout plans for buildings
- Develop metering and sensor equipment testing and maintenance programme
- Supervise installations, testings and commissioning of meters, sensors and metering stations
- Recommend solutions to address feedback and inquiries regarding metering activities
- Monitor data and statistics on meters’ performance for report submissions
- Investigate meter tampering cases to gather information for report preparation
- Administer staff and organisational development
- Identify appropriate training and development courses for staff
- Perform on-the-job training

### Technical Skills and Competencies

#### Autonomous Systems Technology Application
- Level 3

#### Business Intelligence and Data Analytics
- Level 3

#### Continuous Improvement Management
- Level 3

#### Contract Management
- Level 3

#### Crisis Management
- Level 3

#### Emergency Response Management
- Level 3

#### Equipment and Systems Installation and Commissioning Management
- Level 3

#### Gas Meter Installation and Commissioning Management
- Level 3

#### Gas Meter Maintenance
- Level 3

#### Gas Metering Data Management
- Level 3

#### Hazards and Risk Identification and Management
- Level 3

#### Internet of Things Management
- Level 3

### Generic Skills and Competencies (Top 5)

- **Teamwork**
  - Level 3
  - Basic
- **Resource Management**
  - Level 3
  - Basic
- **Problem Solving**
  - Level 3
  - Basic
- **Leadership**
  - Level 3
  - Basic
- **Interpersonal Skills**
  - Level 3
  - Basic

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<td>People Capability Development</td>
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<td>Workplace Safety and Health Framework Development and Implementation</td>
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The information contained in this document serves as a guide.

For a list of Training Programmes available for the Energy and Power sector, please visit: www.skillsfuture.sg/skills-framework/energyandpower