### Role: S25 – Pipeline Inspection Engineer Grade I

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Ability</th>
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<tbody>
<tr>
<td>♦ Knowledge of company health, safety, environment and quality procedures</td>
<td>♦ Adhere to offshore safety standards and maintain a safe working environment</td>
</tr>
<tr>
<td>♦ Identification/Recognition of hazards in the workplace</td>
<td>♦ Implement company non-conformance procedure for situations where procedures are not complied with</td>
</tr>
<tr>
<td>♦ Knowledge of how to react to safety critical situations and what immediate action can be taken to minimise/eliminate them</td>
<td>♦ Implement corrective actions according to the company quality management system</td>
</tr>
<tr>
<td>♦ Adhere to offshore safety standards and maintain a safe working environment</td>
<td>♦ Undertake risk assessment in the workplace</td>
</tr>
<tr>
<td>♦ Report on emergency situations</td>
<td>♦ Encourage safety awareness amongst less experienced personnel</td>
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</table>

### S/S20/000/02 – Emergency response

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<tr>
<th>Knowledge</th>
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<tbody>
<tr>
<td>♦ Recognition of a potential or actual emergency situation and reporting it appropriately</td>
<td>♦ Report on emergency situations</td>
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</table>

The following are some of the types of evidence that can be used, with suggested abbreviations:

- **EOT** – End of trip reports.
- **WR** – Work records and examples of work completed by the individual.
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- **APP** – Copies of performance appraisals.
- **DRILLS** – Exercises carried out to test response situations.
- **DEMO** – Demonstration to Assessor/Verifier.
### Knowledge

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<tr>
<td>Communicate verbally and in writing with clients, colleagues and others</td>
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<tr>
<td>Give and receive handovers at end/start of shift</td>
</tr>
<tr>
<td>Maintain clear and concise logbooks and records</td>
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<tr>
<td>Write concise and unambiguous reports and to handle written language effectively</td>
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<tr>
<td>Communicate effectively with marine crew using the correct descriptive terms for direction, parts of the vessel and other relevant seamanship terms</td>
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<tr>
<td>Supervise and lead subordinate colleagues and associated personnel</td>
</tr>
<tr>
<td>Assign tasks to subordinate and associate colleagues ensuring clear understanding and satisfactory completion of tasks</td>
</tr>
<tr>
<td>Monitor personal development and communicates well with senior personnel on issues of personal development</td>
</tr>
<tr>
<td>Actively seek feedback and advice from experienced colleagues</td>
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### Behavioural factors

<table>
<thead>
<tr>
<th>S/S20/000/03 – Behavioural factors</th>
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<tbody>
<tr>
<td>Identification of areas for personal improvement and how these will be met</td>
</tr>
<tr>
<td>Communicate verbally and in writing with clients, colleagues and others</td>
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**Assessment Method/Documentary Evidence**

**Assessed**

**Verified**

**Signature**

**Date**

**Signature**

**Date**
Role: S25 – Pipeline Inspection Engineer Grade I  
Name: 
Start Date in Current Role: 

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<td>S/S20/000/04 – IT skills</td>
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<tr>
<td>• Understanding of word processing and spreadsheet packages</td>
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<td>• Print documents on local/network printers with acceptable print quality for client submission</td>
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<td>• Configure peripherals for use and change/replace peripherals consumables</td>
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<td>• Basic fault finding and repair ability as applied to IT systems</td>
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<td>S/S20/000/05 – Seamanship</td>
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<tr>
<td>• Knowledge and implications of environmental conditions</td>
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<td>• Working knowledge (with examples) of wind speed and sea state measurement</td>
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<td>• Working knowledge of how weather conditions affect ship handling and the impact of weather on the safe handling of survey systems</td>
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<td>• Knowledge of appropriate marine practice, basic ship handling and rights of way</td>
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<td>• Knowledge of practical seamanship and basic rigging skills</td>
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<td>• Estimate wind and sea states by observation</td>
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<td>• Basic rigging skills</td>
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<td>S/S25/000/06 – Software</td>
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<td>• Detailed knowledge of operation of technical software for the recording and processing of pipeline event data</td>
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<td>• Operate technical software for the recording and processing of pipeline event data</td>
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<td>• Install and configure software for the recording and processing of pipeline event data</td>
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The following are some of the types of evidence that can be used, with suggested abbreviations: **EOT** – End of trip reports. **WR** – Work records and examples of work completed by the individual. **WT** – Witness testimonies – signed observations of work carried out by the individual. **LOG** – Completed logbooks and CVs/resumes. **APP** – Copies of performance appraisals. **DRILLS** – Exercises carried out to test response situations. **DEMO** – Demonstration to Assessor/Verifier.
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<tr>
<td>Understanding of the need for equipment calibration and preparation of materials</td>
<td>• Prepare all materials necessary prior to dive task (e.g. video tapes, technical drawings, log sheets)</td>
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<td>• Conduct pre-dive briefings</td>
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<td>• Calibrate direct contact CP probe or wall thickness probe according to accepted procedures</td>
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<td>• Interpret structural drawings and charts</td>
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<td>• Install, connect and configure a video recording system including digital video equipment</td>
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<tr>
<td>S/S25/000/08 – Data acquisition</td>
<td>♦ Understanding and implementation of work scopes and work plans&lt;br&gt;♦ Recognise when quality of positioning data fails to meet acceptable standards&lt;br&gt;♦ Recognise in real-time those events which fall outside supplied criteria of non-conformance (anomalies)</td>
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<tr>
<td>S/S25/000/08 – Data acquisition</td>
<td>♦ Acquire data using event logging system&lt;br&gt;♦ Operate event logging software (where utilised) and accurately record events&lt;br&gt;♦ Provide an accurate, concise and informative audio commentary during pipeline and subsea structural inspection&lt;br&gt;♦ Monitor quality of video and adequacy of coverage, ability to determine what is and is not acceptable&lt;br&gt;♦ Liaise with ROV crew so that speed of survey and quality of video is optimised&lt;br&gt;♦ Take control of survey and determine what further investigation or coverage is required&lt;br&gt;♦ Prepare and complete paper or electronic data sheets for the recording of data during inspections of wellheads, SSIVs and other subsea structures</td>
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| S/S25/000/09 – Data processing                                            | • Detailed knowledge of use of offline event processing software for data review and QC  
• Data presentation – knowledge of company data processing procedures     |                                       |                   |               |                   |               |
|                                                                           | • Carry out advanced QC review of pipeline video, identifying standard events, resolving ambiguities and accurately quantifying dimensions of damage, free spans and debris |                                       |                   |               |                   |               |
|                                                                           | • Identify from video those events which fall outside supplied criteria of non-conformance (anomalies)                               |                                       |                   |               |                   |               |
|                                                                           | • Liaise with client and resolve errors/omissions/ambiguities                                                                       |                                       |                   |               |                   |               |
|                                                                           | • Produce listings utilising offline event processing software                                                                     |                                       |                   |               |                   |               |
|                                                                           | • Prepare and complete data sheets, video logs, video indexes, photo logs                                                          |                                       |                   |               |                   |               |
|                                                                           | • Prepare summary reports and anomaly reports                                                                                  |                                       |                   |               |                   |               |
|                                                                           | • Produce sketches detailing inspection findings by means of CAD or by hand                                                        |                                       |                   |               |                   |               |
|                                                                           | • Assist in preparation of field and final inspection reports                                                                     |                                       |                   |               |                   |               |
|                                                                           | • Produce data in external client specific format                                                                                |                                       |                   |               |                   |               |
### Role: S25 – Pipeline Inspection Engineer Grade I

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<tbody>
<tr>
<td>S/S25/000/10 – Data management</td>
<td>- Demonstrate knowledge of company data management procedures</td>
<td>- Archive data and maintain archive records</td>
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<td></td>
<td>- Awareness of the importance of maintaining accurate and up to date progress/QA logs</td>
<td>- Transmit data from offshore work site to onshore base</td>
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<td>- Oversee and verify archiving of data</td>
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<tr>
<td>S/S25/000/11 – Technical knowledge</td>
<td>- Understanding of pipeline engineering</td>
<td>- Recognise standard structural features of subsea pipelines, flowlines and umbilicals</td>
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<td></td>
<td>- Knowledge of pipeline construction/installation techniques</td>
<td>- Oversee and advise less experienced members of inspection team</td>
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<td>- Knowledge of pipeline in-service defects and modes of failure</td>
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<td></td>
<td>- Knowledge of basic principles of surface and subsurface survey systems and positioning</td>
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<td></td>
<td>- Knowledge of basic principles of geodetic data, co-ordinate systems and KP generation</td>
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<td></td>
<td>- Knowledge of ROV systems</td>
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<td></td>
<td>- Knowledge of ROV sensors commonly utilised during pipeline inspection and the data gathered by each sensor</td>
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Assessor and Verifier Record and Contact Details

<table>
<thead>
<tr>
<th>Assessor or Verifier</th>
<th>Name</th>
<th>Job Title</th>
<th>Company Name &amp; Company Stamp</th>
<th>Contact Details</th>
<th>Signature</th>
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## Assessor Notes

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