

**Specification of Competency Standards**  
**for the Testing, Inspection and Certification Industry**  
**Unit of Competency**

Functional Area - Testing Operations

|                     |  |
|---------------------|--|
| Title               | Pre-condition test samples   |
| Code                | 105777L3   |
| Range               | This unit of competency (UoC) covers the abilities to pre-condition test samples after sampling prior to testing in the laboratory.  |
| Level               | 3  |
| Credit              | 1 (For Reference Only)   |
| Competency          | <p>Performance Requirements</p> <p>1. Possess knowledge of pre-conditioning and preserving test samples</p> <ul style="list-style-type: none"> <li>• Describe the nature and characteristics of different types of samples.</li> <li>• Identify sample pre-conditioning methods and techniques.</li> <li>• Employ sample preservation techniques for maintaining the integrity of samples.</li> </ul> <p>2. Pre-condition test samples</p> <ul style="list-style-type: none"> <li>• Select workplace for pre-conditioning samples.</li> <li>• Undertake procedures for prevention of contamination of samples.</li> <li>• Undertake procedures for preservation of samples, e.g.: <ul style="list-style-type: none"> <li>○ refrigeration,</li> <li>○ freezing,</li> <li>○ chemical addition such as acidification,</li> <li>○ shielding from direct sunlight,</li> <li>○ filtration.</li> </ul> </li> <li>• Control environmental conditions such as temperature, humidity.</li> <li>• Select sample storage containers after conditioning.</li> <li>• Determine the maximum permissible retention period of pre-conditioned samples before testing.</li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Maintain the integrity of samples after conditioning.</li> <li>• Ensure samples are kept properly under specific environmental conditions.</li> </ul> |
| Assessment Criteria | <p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> <li>• pre-condition and preserve test sample by applying appropriate techniques and procedures to maintain the integrity of sample prior to testing in the laboratory,</li> <li>• store the pre-conditioned sample in an appropriate storage container and determine the maximum permissible retention period of pre-conditioned sample.</li> </ul>  |
| Remark              |  |