

# **Assessment Evidence Guide**

## **For**

### **“Fettling Operator”**

**Level-2**

**Module name**  
**(Formative Assessment)**

*8<sup>th</sup> -12<sup>th</sup> March 2021*



**National Vocational & Technical**  
**Training Commission**

|   |  |          |             |
|---|--|----------|-------------|
| <b>Title of Qualification: Fetting Operator</b>         | CS Code:   | Level: 2 | Version: 01 |
| <b>Competency Standard Title: Perform shot blasting</b> | <b>Assessment Date (DD/MM/YY):</b><br><br><b>Assessment Time: 1 hour</b> |          |             |

|                           |   |
|---------------------------|---|
| Candidate Details         | Name: .....<br><br>Registration/Roll Number:.....   |
| Guidance for Candidate    | <p><b>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration &amp; assessment):</b></p> <p><b>Assessment Task 1:</b> Candidate is required to:<br/>Identify shot blasting equipment</p> <p><b>Assessment Task 2:</b> Candidate is required to:<br/>Perform shot blasting process</p> <p><b>And complete:</b></p> <ol style="list-style-type: none"> <li><b>1. Knowledge assessment test (Written or Oral)</b></li> <li><b>2. Portfolios at the time of assessment (if any)</b></li> </ol>   |
| Minimum Evidence Required | <p><b>During a practical assessment, under observation by an assessor, you will complete:</b></p> <p><b>Assessment Task 1</b></p> <ul style="list-style-type: none"> <li>• Comply with applicable legislative , OHS and organisational requirements relevant to the use of shot blasting equipment</li> <li>• Select shot blasting equipment and shot size consistent with the needs of the job</li> <li>• Check shot blasting equipment for serviceability and safety</li> <li>• Recognise sources of power supply</li> </ul> <p><b>Assessment Task 2</b></p> <ul style="list-style-type: none"> <li>• Identify shot media in accordance with standard operating procedures.</li> <li>• Set air pressure as per requirement</li> <li>• Place sample in chamber</li> <li>• Operate blasting equipment in accordance with standard operating procedures.</li> <li>• Undertake emergency shut-down procedures</li> <li>• Remove and clean specimen</li> <li>• Clean blasting equipment</li> </ul> |

|  |   |
|--|---|
|  | <ul style="list-style-type: none"> <li>Inspect specimen in accordance with requirement</li> </ul> |
|  | <b>Portfolios required at the time of assessment (if any) for</b>                                 |

*Continued on following page*

**Assessors Judgment Guide** (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

|                    |   |
|--------------------|---|
| Candidate Details  | Name: ..... Registration/Roll Number: .....<br>Candidate Signature: .....   |
| Assessment Outcome | COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/><br>Name of the Assessor: ..... Assessor's code: .....<br>Signature of the Assessor: ..... |

| Assessment Summary (to be filled by the assessor) |         |      |             |           |           |           |                   |
|---|---------|------|-------------|-----------|-----------|-----------|-------------------|
| Activity  | Method  |      |             |           |           | Result    |                   |
| Nature of Activity                                | Written | Oral | Observation | Portfolio | Role Play | Competent | Not Yet Competent |
| Practical Skill Demonstration                     |         |      | ✓           |           |           |           |                   |
| Knowledge Assessment                              | ✓       | ✓    |             |           |           |           |                   |
| Other Requirement                                 |         |      |             |           |           |           |                   |

|  |   |  |    |         |
|--|---|--|----|---------|
| Each Assessment Task (with performance criteria)                       |   |  |    |         |
| <b>Assessment Task 1</b>   |   | <b>Description of assessment task 1</b>    |    |         |
| During the practical assessment, candidate demonstrated the following: |   | Yes  | No | Remarks |
| 1.   | Comply with applicable legislative , OHS and organisational requirements relevant to the use of shot blasting equipment |  |    |         |
| 2.   | Select shot blasting equipment and shot size consistent with the needs of the job                                       |  |    |         |
| 3.   | Check shot blasting equipment for serviceability and safety   |  |    |         |
| 4.   | Recognise sources of power supply   |  |    |         |
| Competent <input type="checkbox"/>                                     |   | Not Yet Competent <input type="checkbox"/> |    |         |

| Assessment Task 2  |  | Description of assessment task 2           |    |         |
|--|--|--|----|---------|
| During the practical assessment, candidate demonstrated the following: |  | Yes  | No | Remarks |
| 5.   | Identify shot media in accordance with standard operating procedures.        |  |    |         |
| 6.   | Set air pressure as per requirement  |  |    |         |
| 7.   | Place sample in chamber  |  |    |         |
| 8.   | Operate blasting equipment in accordance with standard operating procedures. |  |    |         |
| 9.   | Undertake emergency shut-down procedures                                     |  |    |         |
| 10.  | Remove and clean specimen  |  |    |         |
| 11.  | Clean blasting equipment   |  |    |         |
| 12.  | Inspect specimen in accordance with requirement                              |  |    |         |
| Competent <input type="checkbox"/>                                     |  | Not Yet Competent <input type="checkbox"/> |    |         |

|   |  |         |                |
|---|--|---------|----------------|
| <b>Title of Qualification: Fettleling Operator</b>      | CS Code:   | Level:2 | Version:<br>01 |
| <b>Competency Standard Title: Perform shot blasting</b> | <b>Assessment Date (DD/MM/YY):</b><br><br><b>Assessment Time: 30 min</b> |         |                |

|                        |  |
|------------------------|--|
| Guidance for Candidate | <b>To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.</b> |
|------------------------|--|

**Assessors Guide** (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

|                   |   |
|-------------------|---|
| Candidate Details | Name:.....Registration/Roll Number:<br><br>Candidate Signature: ..... |
|-------------------|---|

|                                  |  |  |
|----------------------------------|--|--|
| Written<br>Assessment<br>Outcome | COMPETENT <input type="checkbox"/>           | NOT YET COMPETENT <input type="checkbox"/> |
|                                  | Name of the Assessor: ..... Assessor's code: |  |
|                                  | Signature of the<br>Assessor: .....          |  |

|   |  |          |                |
|---|--|----------|----------------|
| <b>Title of Qualification: Fettling Operator</b>        | CS Code:   | Level: 2 | Version:<br>01 |
| <b>Competency Standard Title: Perform shot blasting</b> | <b>Assessment Date (DD/MM/YY):</b><br><br><b>Assessment Time:</b> 30 min |          |                |

#### WRITTEN ASSESSMENT

| Question   | Candidate's answer   |
|--|--|
| 1. What is difference between sand blasting and shot blasting? | <ul style="list-style-type: none"> <li>Sand blasting is using silica sand as its media, whereas with shot blasting they are using metallic shots that range from steel, copper to aluminum.</li> </ul>   |
| 2. What material is used for shot blasting?                    | <ul style="list-style-type: none"> <li>Types of metal abrasives used in shot blasting include steel grit, copper shots, and aluminum pellets. Other methods of shot blasting use silica sand, glass beads, synthetic materials like sodium bicarbonate (baking soda), and even agricultural materials like crushed kernels.</li> </ul> |
| 3. Why do you blast before painting?                           | <ul style="list-style-type: none"> <li>Abrasive blasting uses various materials to strip imperfections, paint, rust and other contaminants from a surface. It's an important step in surface coating preparation, as it cleans a substrate and creates a surface that will hold a protective coating</li> </ul>                        |