

## **EaD Comprehensive Lesson Plans**



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### **BASIC 7**

## **WEEKLY LESSON PLAN – WEEK 5**

|                               |  |  |   |                           |   |
|-------------------------------|--|--|---|---------------------------|---|
| Strand:                       | Tools, equipment and processes   |  | Sub-Strand:   | Measuring and marking out |   |
| Content Standard:             | B7.3.1.1 Demonstrate understanding measuring and marking out tools and equipment for production      |  |   |                           |   |
| Indicator (s)                 | B7.3.1.1.2: Demonstrate how to care and maintain measuring and marking out tools used for production |  | Performance Indicator: Learners can take safety precautions and care for measuring and marking out tools. |                           |   |
| Week Ending                   | 09-02-2024   |  |   |                           |   |
| Class                         | B.S.7  | Class Size:  |   | Duration:                 |   |
| Subject                       | Career Technology  |  |   |                           |   |
| Reference                     | Career Technology Curriculum, Teachers Resource Pack, Learners Resource Pack                         |  |   |                           |   |
| Teaching / Learning Resources | speedometers, measuring tape, thermometers, Pictures, Video.   |  | Core Competencies:  |                           |   |
| DAY/DATE                      | PHASE 1 : STARTER  | PHASE 2: MAIN  |   |                           | PHASE 3: REFLECTION   |
| MONDAY                        | Learners brainstorm to identify 5 examples of measuring and marking out tools.                       | <div>1. Show Learners some examples of measuring and marking out tools brought to the class. Eg. Measuring tape, thermometers, speedometer for Measuring tools and Chalk, pen, Pins</div> <div>2. Assist Individual Learners to share their experiences from home on how to care for tools and equipment used for production.</div> <div>3. Discuss with Learners examples of cleaning agents or materials used to clean and maintain tools and equipment based on the respective material used in making the tool</div> <div>Measuring tool</div> <div><div>Types of Measuring Tools &amp; Their Uses</div><div><div><div>Angle Locator</div><div>Micrometer</div><div>Gauge</div><div>Protractor</div><div>Tape</div><div>Angle Gauge</div><div>Level</div><div>Square Measure</div><div>Inclinometer</div><div>Compass</div><div>Laser Level</div><div>Caliper</div><div>Speedometer</div></div></div><div><div>• Speedometers</div><div>• measuring tape</div></div></div> |   |                           | <div>Reflect on the importance of using marking out and measuring tools.</div> <div>Exercise;</div> <div><div>1. State 5 measuring tools for production.</div><div>2. Write 5 marking out tools</div></div> |

- Thermometers
- Compasses
- digital angle gauges
- levels
- laser levels
- Macrometer
- measuring squares
- odometers
- pressure gauges
- protractors
- rulers
- angle locators
- bubble inclinometers and
- Calipers

#### Marking-out tools;

- Tracing wheel and dressmaker's paper: Dressmaker's paper is something like carbon paper, in that it transfers markings with applied pressure.
- Water soluble pencils
- Markers and pens
- Tailor's chalk
- Chalk
- pen
- Pins



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| <p><b>THURSDAY</b></p> | <p>Review Learners knowledge on the previous lesson.</p> | <ol style="list-style-type: none"> <li>1. Show Learners a video on how to care for measuring and marking out tools and equipment.</li> <li>2. Demonstrate how to care for measuring and marking out tools and equipment according to the material used in making them.</li> <li>3. Assist Learners to practice caring for the measuring and marking out tools brought to the class.</li> </ol> <p><b>Caring for Measuring Tools;</b></p> <ol style="list-style-type: none"> <li>1. . Measuring a work piece (on a lathe) should be carried out only after the work piece has stopped moving; otherwise, there could be wear on the measuring faces and the accuracy of the tool may be compromised.</li> <li>2. Wipe the measuring faces of a precision measuring tool and the to-be-measured surface of the work piece to prevent the measuring accuracy from being negatively affected by dirt or dust. It is not advisable to use a precision tool such as a vernier caliper, micrometer or dial indicator to measure forged roughcasts or abrasive-bearing pieces, i.e. carborundum, because the measuring faces will be abraded and accuracy will diminish.</li> <li>3. Never put precision measuring tools together with hand tools, such as cutting tools, files, hammers and drills for the fear of bumping and damaging the precision measuring tools. Never leave them on a lathe or other running machinery for fear of vibration causing them to fall to the floor.</li> <li>4. Precision measuring tools should not be used as substitutes for other tools. Don't use a caliper as a pry bar or screwdriver! Don't use a micrometer for a hammer or C clamp! You might be tempted but don't do it!</li> </ol> <p><b>Caring for Marking out tools;</b></p> | <p>Through questions and answers, conclude the lesson.</p> <p><b>Exercise;</b></p> <p>Explain 5 ways of caring for measuring and marking out tools.</p> |
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|  |  | <ol style="list-style-type: none"><li>1. Leave the work area in a safe, clean and tidy condition.</li><li>2. Return all marking-out hand tools to their appropriate storage cupboard, in a dry environment.</li><li>3. Regularly clean and maintain the condition of all marking-out hand tools.</li><li>4. Adjust and sharpen marking gauges and mortise gauges as required.</li></ol> |  |
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Name of Teacher:

School:

District: