

## PERFORM MATERNITY EQUIPMENT MAINTENANCE

**UNIT CODE:** 0914451 20A

**TVET CDACC UNIT CODE:** ENG/OS/MDE/CR/04/5/MA

### UNIT DESCRIPTION:

This unit specifies the competencies required to Perform Maternity Equipment Maintenance. Competencies include Performing Infant Incubator Maintenance, Performing CPAP Machine Maintenance, Performing Phototherapy Machine Maintenance, Performing Resuscitator Maintenance, Performing Delivery Bed Maintenance, Performing Weighing Balance Maintenance, Performing Cardiotocography (CTG) Machine Maintenance and Performing Room Warmers Maintenance.

### ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements. <i><b>Bold and italicized terms are elaborated in the Range</b></i>
1. Perform Infant Incubator Maintenance	1.1 Health hazards and safety procedures are carried out as per work procedure. 1.2 Infant Incubator is disinfected as per work procedure 1.3 <i><b>Infant Incubator parts</b></i> inspected as per service manual. 1.4 Infant Incubator Fault diagnosis is performed as per service manual. 1.5 Infant Incubator water chamber is refilled as per service manual. 1.6 Infant Incubator Faulty parts are maintained as per manufacturer's specifications. 1.7 Infant Incubator functionality check is performed as per service manual. 1.8 Equipment user training is carried out in line with the user manual. 1.9 Infant Incubator service report is prepared as per work procedure

<p>2. Perform continuous positive airway pressure (CPAP) Machine Maintenance</p>	<p>2.1 Health hazards and safety procedures are carried out as per work procedure.</p> <p>2.2 CPAP Machine is disinfected as per work procedure</p> <p>2.3 CPAP Machine Parts are inspected as per service manual</p> <p>2.4 Fault diagnosis is performed as per service manual.</p> <p>2.5 Air and gas passages are cleaned as per service manuals</p> <p>2.6 CPAP Machine <b>Service kit components</b> are replaced on the machine as per manufacturer's specifications.</p> <p>2.7 CPAP Machine Faulty parts are maintained as per manufacturer's specifications.</p> <p>2.8 CPAP Machine functionality check is performed as per service manual.</p> <p>2.9 Equipment user training is carried out in line with the user manual.</p> <p>2.10 CPAP Machine service report is prepared as per work procedure</p>
<p>3. Perform Phototherapy Machine Maintenance</p>	<p>3.1 Health hazards and safety procedures are carried out as per work procedure.</p> <p>3.2 <b>Phototherapy Machine parts</b> is sanitized as per work procedure</p> <p>3.3 Phototherapy Machine Parts are inspected as per service manual</p> <p>3.4 Phototherapy Machine Fault diagnosis is performed as per service manual.</p> <p>3.5 Phototherapy Machine Faulty parts are maintained as per manufacturer's specifications.</p> <p>3.6 Phototherapy Machine functionality check is performed as per service manual.</p> <p>3.7 Equipment user training is carried out in line with the user manual.</p> <p>3.8 Phototherapy Machine service report is prepared as per work procedure</p>
<p>4. Perform Resuscitaire Maintenance</p>	<p>4. 1Health hazards and safety procedures are carried out as per work procedure.</p> <p>4. 2Resuscitaire parts are sanitized as per work procedure</p>

	<p>4. 3 Resuscitaire Parts are inspected as per service manual</p> <p>4. 4 Resuscitaire Fault diagnosis is performed as per service manual.</p> <p>4. 5 Resuscitaire Faulty parts are maintained as per manufacturer's specifications.</p> <p>4. 6 Resuscitaire Calibration is carried out as per manufacturer's specifications.</p> <p>4. 7 Resuscitaire functionality check is performed as per service manual.</p> <p>4. 8 Equipment user training is carried out in line with the user manual.</p> <p>4. 9 Resuscitaire service report is prepared as per work procedure</p>
5. Perform Delivery Bed Maintenance	<p>5.1 Health hazards and safety procedures are carried out as per work procedure.</p> <p>5.2 Delivery Bed is disinfected as per work procedure</p> <p>5.3 Delivery Bed Parts are inspected as per service manual</p> <p>5.4 Delivery Bed Fault diagnosis is performed as per service manual.</p> <p>5.5 Delivery Bed Movable parts are lubricated as per manufacturer's specifications.</p> <p>5.6 Delivery Bed Faulty parts are maintained as per manufacturer's specifications.</p> <p>5.7 Delivery Bed functionality check is performed as per service manual.</p> <p>5.8 Equipment user training is carried out in line with the user manual.</p> <p>5.9 Delivery Bed service report is prepared as per work procedure</p>
6. Perform Weighing balance Maintenance	<p>6.1 Health hazards and safety procedures are carried out as per work procedure.</p> <p>6.2 <b>Weighing Balance parts</b> are inspected as per service manual.</p> <p>6.3 Weighing Balance Fault diagnosis is performed as per service manual.</p> <p>6.4 Weighing Balance Faulty parts are maintained as per manufacturer's specifications.</p> <p>6.5 Weighing Balance Calibration is carried out as per service manual.</p>

	<p>6.6 Weighing Balance functionality check is performed as per service manual.</p> <p>6.7 Equipment user training is carried out in line with the user manual.</p> <p>6.8 Weighing Balance service report is prepared as per work procedure.</p>
7. Perform Cardiotocography (CTG) Machine Maintenance	<p>7.1 Health hazards and safety procedures are carried out as per work procedure.</p> <p>7.2 CTG Machine is sanitized as per work procedure</p> <p>7.3 <b>CTG Machine Parts</b> are inspected as per service manual.</p> <p>7.4 CTG Machine Fault diagnosis is performed as per service manual.</p> <p>7.5 CTG Machine faulty parts are maintained as per manufacturer's specifications.</p> <p>7.6 CTG Machine functionality check is performed as per service manual.</p> <p>7.7 Equipment user training is carried out in line with the user manual.</p> <p>7.8 CTG Machine service report is prepared as per work procedure.</p>
8. Perform Room Warmers Maintenance	<p>8.1 Health hazards and safety procedures are carried out as per work procedure.</p> <p>8.2 <b>Room Warmer parts</b> are inspected as per service manual.</p> <p>8.3 Room Warmer Fault diagnosis is performed as per service manual.</p> <p>8.4 Room Warmer faulty parts are maintained as per manufacturer's specifications.</p> <p>8.5 Room Warmer functionality check is performed as per service manual.</p> <p>8.6 Equipment user training is carried out in line with the user manual.</p> <p>8.7 Room Warmers service report is prepared as per work procedure.</p>

## RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Infant Incubator parts include but not limited to:	<ul style="list-style-type: none"><li>● Hood/Canopy</li><li>● Control valve</li><li>● Heating element</li><li>● Control panel</li><li>● Distilled water reservoir</li><li>● Air filter</li><li>● Temperature probe</li><li>● Fans</li></ul>
2. Service kit components include but not limited to:	<ul style="list-style-type: none"><li>● Air filters</li><li>● O-rings</li><li>● Mask replacement</li></ul>
3. Baby Weighing scale parts include but not limited to:	<ul style="list-style-type: none"><li>● Base</li><li>● Platter</li><li>● Strain Gauge</li><li>● Load cell</li></ul>
4. CTG Machine Parts include but not limited to:	<ul style="list-style-type: none"><li>● Transducer probes</li><li>● Monitor</li><li>● Doppler</li></ul>

<b>5.Room Warmer parts</b> include but not limited to:	<ul style="list-style-type: none"> <li>● Heating elements</li> <li>● Temperature regulator</li> <li>● Fan</li> </ul>
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## REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

### Required Skills

The individual needs to demonstrate the following skills:

- Use of tools and equipment
- Communication skills
- Troubleshooting skills
- Mechanical skills
- ICT skills
- Installation
- Calibration
- Problem solving
- Critical thinking
- Report writing
- Record keeping
- Interpersonal skills
- Numeracy skills
- Leadership skills

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### Required Knowledge

The individual needs to demonstrate knowledge of:

- Safety precautions
- Fault diagnosis
- Electrical principles
- Electronics
- Hospital hygiene

- Standards of calibration

## EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1.Critical Aspects of Competency	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Carried out health hazards and safety procedures as per work procedure.</li> <li>1.2 Disinfected Maternity Equipment as per workplace procedures.</li> <li>1.3 Inspected parts of Maternity Equipment as per service manual.</li> <li>1.4 Performed fault diagnosis of Maternity Equipment as per workplace procedures and service manuals.</li> <li>1.5 Cleaned parts of Maternity Equipment as per service manual.</li> <li>1.6 Maintained faulty parts of Maternity Equipment as per manufacturer's specifications.</li> <li>1.7 Carried out calibration of Maternity Equipment as per manufacturer's specifications.</li> <li>1.8 Carried out Equipment user training in line with the user manual.</li> <li>1.9 Performed functionality check of Maternity Equipment as per service manual.</li> <li>1.10 Prepared Maternity Equipment service report as per work procedure.</li> </ul>
2 Resource Implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Access to relevant workplace where assessment can take place</li> <li>2.1 Access to Maternity Equipment which can be used for assessment</li> <li>2.2 Access to relevant tools which can be used for installation and maintenance</li> </ul>
3 Methods of Assessment	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> <li>3.1 Observation</li> <li>3.2 Oral questioning</li> <li>3.3 Written test</li> </ul>

	3.4 Practical Demonstration 3.5 Interview 3.6 Third party report
4 Context of Assessment	Competency may be assessed in a workplace or a simulated workplace.
5 Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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