

### LEARNING OUTCOMES

- 1 Make products using computer controlled equipment
- 2 Know how to make products using computer controlled equipment

Performance evidence must be the main form of evidence gathered. You are required to provide THREE pieces of evidence that demonstrate your competence for the criteria in outcome one and ONE piece of evidence to show your essential knowledge for the criteria in outcome two.

### OUTCOME ONE

#### MAKE PRODUCTS USING COMPUTER CONTROLLED EQUIPMENT

You are required to provide THREE pieces of evidence that demonstrate your competence in each criteria.

Performance evidence required You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
1 Work safely at all times, complying with health and safety, environmental and other relevant regulations and guidelines.			
2 Follow the relevant manufacturing procedures and safety requirements to include <b>all</b> of the following: <ul style="list-style-type: none"> <li>• health and safety regulations</li> <li>• safe working practices</li> <li>• job instructions</li> <li>• computer controlled equipment / tool operating instructions</li> <li>• company standards and procedures.</li> </ul>			
3 Obtain and follow the correct job instructions and any relevant manufacturing procedure and quality specifications.			
4 Ensure the manufacturing program is at the correct start point before running the equipment.			

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## Unit 216

## Making products using computer controlled equipment

**OUTCOME ONE** *continued***MAKE PRODUCTS USING COMPUTER CONTROLLED EQUIPMENT**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>5</b> Follow the correct procedures for starting, running and stopping the computer program.			
<b>6</b> Respond in an appropriate manner to any error/display screen messages received.			
<b>7</b> Monitor and control the computer controlled manufacturing operation and identify any faults, variations or problems that occur.			
<b>8</b> Make permitted adjustments related to <b>two</b> of the following: <ul style="list-style-type: none"> <li>• quality</li> <li>• accuracy</li> <li>• material utilisation</li> <li>• operational safety</li> <li>• manufacturing changes</li> <li>• productivity.</li> </ul>			
<b>9</b> Report any problems that you cannot solve or are outside your permitted authority to the appropriate person to include <b>one</b> of the following: <ul style="list-style-type: none"> <li>• supervisor</li> <li>• team leader</li> <li>• quality control.</li> </ul>			

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**OUTCOME ONE** *continued***MAKE PRODUCTS USING COMPUTER CONTROLLED EQUIPMENT**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>10</b> Minimise any waste during the computer controlled manufacturing operation.			
<b>11</b> Produce manufactured products which comply with the specification and quality requirements.			
<b>12</b> Carry out checks of the manufactured products to include the following: • completeness of manufacturing operation and <b>three</b> other checks from the following: • dimensional accuracy • quality of finish • freedom from damage • quantity • volume • freedom from contamination.			
<b>13</b> Work to achieve your production targets for <b>both</b> of the following: • output • quality.			
<b>14</b> Deal appropriately with finished components and complete any necessary documentation accurately and legibly.			

## Unit 216

# Making products using computer controlled equipment

## OUTCOME TWO

### KNOW HOW TO MAKE PRODUCTS USING COMPUTER CONTROLLED EQUIPMENT

You are required to demonstrate competence in each criteria on at least ONE occasion.

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>1</b> Describe the relevant health and safety requirements of the work area in which you are carrying out the computer controlled manufacturing operations.			
<b>2</b> Explain the specific safe working practices, equipment procedures and environmental regulations that need to be observed.			
<b>3</b> Explain the hazards associated with carrying out the computer controlled operations and how they can be minimised.			
<b>4</b> Explain what actions need to be taken in case of emergencies when using computer controlled equipment.			
<b>5</b> Explain what personal protective equipment may be used during the operation and where can it be obtained.			
<b>6</b> Explain how to obtain the necessary job instructions, operating procedures and manufacturing specifications that are used, and how to interpret them.			
<b>7</b> Explain how to start up and check the computer equipment is at the correct start point in the operating program.			
<b>8</b> Explain what to do if error messages are displayed.			

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**OUTCOME TWO** *continued***KNOW HOW TO MAKE PRODUCTS USING COMPUTER CONTROLLED EQUIPMENT**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>9</b> Explain how to restart the equipment after it has been closed down in an emergency situation.			
<b>10</b> Explain what methods can be used to minimise waste during computer controlled manufacturing operations.			
<b>11</b> Explain what faults, problems or variations can occur in the computer controlled manufacturing operation.			
<b>12</b> Explain how to identify faults, problems or variations in the computer controlled manufacturing operation.			
<b>13</b> Explain what allowable adjustments you can make to achieve specification in the computer controlled manufacturing operation.			
<b>14</b> Explain why it is important to report faults, variations or problems that are outside your permitted authority and or you cannot solve immediately.			
<b>15</b> Explain how to check the quality of the manufactured products, against the required quality standards.			
<b>16</b> Explain what documentation may need to be completed, and why it is important to complete it accurately and legibly.			

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## Making products using computer controlled equipment

**OUTCOME TWO** *continued***KNOW HOW TO MAKE PRODUCTS USING COMPUTER CONTROLLED EQUIPMENT**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>17</b> Explain what your responsibilities are with regard to the reporting lines and procedures in your working area.			
<b>18</b> Explain who the appropriate people are and what their responsibilities are within your working area.			

## Sign-off

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### CANDIDATE DECLARATION

I confirm that all the evidence submitted for this qualification is my own work.

Signature of candidate:

Date:

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### ASSESSOR DECLARATION

I can confirm that the evidence presented is valid, authentic, current and sufficient within the context of the qualification criteria, and demonstrates the candidate's competence across the outcomes claimed.

Signature of assessor:

Name of assessor:

Date:

Internal verifier signature (if sampled):

Internal verifier name:

Date:

External verifier signature (if sampled):

External verifier name:

Date: