

### LEARNING OUTCOMES

- 1 Carry out inspection and testing activities
- 2 Know how to carry out inspection and testing activities

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

#### CARRY OUT INSPECTION AND TESTING ACTIVITIES

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 sampling procedures and safety requirements to include <b>all</b> of the following: <ul style="list-style-type: none"> <li>• health and safety and environmental regulations</li> <li>• safe working practices</li> <li>• quality control job instructions</li> <li>• machinery/equipment safety procedures</li> <li>• company standards and procedures.</li> </ul>			

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## Unit 222

## Carrying out inspection and testing activities

**OUTCOME ONE** *continued***CARRY OUT INSPECTION AND TESTING ACTIVITIES**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>3</b> Collect production samples in relation to <b>one</b> of the following manufacturing methods: <ul style="list-style-type: none"> <li>• hand manufacturing operations</li> <li>• manually operated machine operations</li> <li>• computer controlled operations</li> <li>• fully automated machine operations</li> <li>• combined manufacturing operations.</li> </ul>			
<b>4</b> Obtain and follow the correct job instructions and any relevant quality control specifications.			
<b>5</b> Carry out the inspection and testing activities using the specified methods and equipment.			
<b>6</b> Carry out sampling activities to include <b>both</b> of the following sampling procedures: <ul style="list-style-type: none"> <li>• random</li> <li>• defined (eg first/final).</li> </ul>			
<b>7</b> Work in line with <b>all</b> of the following aspects of the inspection specification: <ul style="list-style-type: none"> <li>• use the correct method of sampling</li> <li>• obtain the required number of samples</li> <li>• obtain the correct size of samples</li> <li>• use the correct source of sample</li> <li>• take samples at the correct time/frequency.</li> </ul>			

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**OUTCOME ONE** continued**CARRY OUT INSPECTION AND TESTING ACTIVITIES**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>8</b> Take samples of the production output at the required frequency and in line with the inspection specification and operating procedures.			
<b>9</b> Handle and store the samples safely and correctly in keeping with the quality control procedures.			
<b>10</b> Transfer any samples which need to be inspected and tested in other departments promptly and in the correct way.			
<b>11</b> Prepare samples for inspection and testing in line with the defined procedures.			
<b>12</b> Carry out checks of the samples to include <b>two</b> of the following as is appropriate to the process: <ul style="list-style-type: none"> <li>• visual inspection</li> <li>• measurement</li> <li>• analysis testing</li> <li>• functional operation.</li> </ul>			
<b>13</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>• team leader</li> <li>• production supervisor</li> <li>• quality control supervisor.</li> </ul>			

## Unit 222

## Carrying out inspection and testing activities

**OUTCOME TWO****KNOW HOW TO CARRY OUT INSPECTION AND TESTING ACTIVITIES**

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 sampling and inspection/testing activities.			
<b>2</b> Explain what specific safe working practices, sampling collection, testing procedures and environmental regulations need to be observed.			
<b>3</b> Explain the hazards associated with carrying out the sample collection and inspection and testing procedures and how they can be minimised.			
<b>4</b> Explain what personal protective equipment needs to be used during the sampling and inspection/testing activities and where can it be obtained.			
<b>5</b> Explain how to obtain the necessary job instructions, sampling equipment, inspection and testing procedures and quality control specifications that are used, and how to interpret them.			
<b>6</b> Explain how to carry out the sampling activities in line with the production and quality control procedures including first off, random, defined and final sampling procedures.			

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**OUTCOME TWO** *continued***KNOW HOW TO CARRY OUT INSPECTION AND TESTING ACTIVITIES**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>7</b> Explain why it is important to follow the specified sampling sequence and inspection and testing procedure at all times.			
<b>8</b> Describe what specific sampling and inspection and testing equipment is to be used, and the precautions to be taken when handling and using it.			
<b>9</b> Explain what factors may make the equipment, or the samples obtained unsuitable for the testing or inspection activities.			
<b>10</b> Describe the correct methods of preparing, handling and storing the samples.			
<b>11</b> Explain how to carry out an inspection or testing of sample materials and products in line with operating and quality control procedures.			
<b>12</b> Describe the potential problems associated with stages of the inspection and testing process, how they occur and how they can be corrected.			
<b>13</b> Explain how to deal with problems which affect aspects of sample collection, inspection and testing activities and the interpretation of the results.			

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## Carrying out inspection and testing activities

**OUTCOME TWO** *continued***KNOW HOW TO CARRY OUT INSPECTION AND TESTING ACTIVITIES**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>14</b> Explain how to report any problems you are not able to deal with yourself and why it is important to report faults, variations or problems immediately.			
<b>15</b> Explain what your responsibilities are with regard to the reporting lines and procedures in your working area.			
<b>16</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: