

Learning Assessment Guide

Unit Standard 20360 – Version 1

Explain pattern approval and evaluation system for compliance with the weights and measures legislation

Level 6 – 12 Credits

Assessment Summary			
Learner to complete			
Learner's name:			
Employer:			
NSN no. (ROL):		DOB:	
Signed:		Date:	
Assessor to complete			
<input type="checkbox"/> Meets requirements <input type="checkbox"/> More training required <input type="checkbox"/> More evidence required			
Assessor's name:		Assessor's No.	
Signed:		Date:	

Before you begin...

- As well as this Learning Assessment Guide, you may also want to refer to the unit standard from the NZQA website (<http://www.nzqa.govt.nz>).
- Read the Trainee Information Kit. The kit contains important information and guidelines for Learners and can be found on the Learning State website (<http://www.learningstate.govt.nz>) under Learners, then Learning Assessment Guides.
- Check the learning resources available for this unit standard on the Learning State website (<http://www.learningstate.govt.nz>) under Learners, then Learning Assessment Guides.

This Learning Assessment Guide is made up of:

- Tasks for you to complete.
- Assessment results that your assessor will use to assess your competence.

The assessment tasks are designed to show your assessor that you can:

- Explain the pattern approval and evaluation system for weights and measures.
- Identify weighing and measuring equipment subject to pattern approval.
- Explain the legislative and organisational requirements for pattern approval submissions.
- Explain the application and use of pattern evaluation test.

Assessment Resources:

- Pattern Approval Guide.
- OIML documents.

General Instructions:

- You will need to meet with your assessor to decide whether you will supply each piece of information required in writing or respond to the assessor asking you oral questions. You can agree on a combination of the two. In some cases the assessment task makes it clear a document is required.
- Answer the written questions.
- Your assessor may wish to ask you further oral questions to confirm your understanding and possibly supplement other evidence provided.

Please review the NZQA unit standard before starting this assessment. The special notes section contains useful definitions and reference to resources.

All activities relating to this unit standard must comply with any policies, procedures and requirements of the Ministry of Consumer Affairs, Measurement and Product Safety Service. (MAPSS).

Legislation relevant to this unit standard will include the Weights and Measures Act 1987, Weights and Measures Regulations 1999 and any subsequent amendments.

What do I do now?

- Read through all the information contained in this Learning Assessment Guide
- Familiarise yourself with each task, and the instructions
- Contact your assessor if necessary to clarify anything you are unsure of
- Complete the assessment task as agreed on with your assessor
- Contact your assessors when you have finished
- Make sure you keep a written copy of your completed assessment task if you are sending the original copy to your assessor.

Assessment Task One – Element 1

Introduction

This assessment task is designed to assess your ability to explain the pattern approval and evaluation system for weights and measures.

Task One

1. Explain the pattern approval application procedure.
2.
 - (a) Identify and give a brief explanation of the legislation relating to pattern approval.
 - (b) Explain the organisational (MAPSS) requirements for an application for approval.
3.
 - (a) Explain what is meant by pattern evaluation.
 - (b) Describe the pattern evaluation process.
4.
 - (a) Explain what is meant by pattern approval.
 - (b) Describe the pattern approval process.
5. Pattern approvals generally fall into one of four categories. Name these categories and give a brief description of each.

Assessment Task Two – Element 2

Introduction

This assessment task is designed to assess your ability to identify weighing and measuring equipment subject to pattern approval.

Task Two

1. Identify and list the weighing and measuring equipment subject to pattern approval.
Examples of equipment include non-automatic weighing instruments, measuring instruments.
2. Define trade use.

Assessment Task Three – Element 3

Introduction

This assessment task is designed to assess your ability to explain the legislative and organisational requirements for pattern approval submissions.

Task Three

1. Explain the requirements for full pattern approval submissions.
2. Explain the requirements for overseas pattern approval submissions.
3. Explain the requirements for variants to an existing pattern approval.

Assessment Task Four – Element 4

Introduction

This assessment task is designed to assess your ability to explain the application and use of pattern evaluation tests.

Task Four

1. Describe and give reasons for using the following tests:
 - (a) Temperature test.
 - (b) Voltage variation.
 - (c) Damp heat steady state.
 - (d) Short time power reduction.
 - (e) Electrical bursts and transients.
 - (f) Electrostatic discharge.
 - (g) Immunity to radiated magnetic fields.
 - (h) Endurance.
 - (i) Protection against fraudulent use.

2. Identify the approval evaluation tests applicable to the following types of instruments and explain the reason for the test:
 - (a) Non-automatic weighing instruments.
 - (b) Liquid measuring instruments.

Assessment Results

These are the judgements that your assessor will use to assess you:

Can the learner explain the pattern approval and evaluation system for weights and measures as follows?	Yes	No
Has the pattern approval application procedure been explained?	Yes	No
Has the legislation relating to pattern approval been identified and explained?	Yes	No
Have the organisational (MAPSS) requirements for an application for approval been identified and explained?	Yes	No
Has pattern evaluation and the pattern evaluation process been explained?	Yes	No
Has pattern approval and the pattern approval process been explained?	Yes	No
Have the four categories of pattern approval been named and a brief description given for each of them?	Yes	No
Can the learner identify weighing and measuring equipment subject to pattern approval as follows?	Yes	No
Has weighing and measuring equipment subject to pattern approval been identified?	Yes	No
Has trade use been defined?	Yes	No
Can the learner explain the legislative and organisational requirements for pattern approval submissions as follows?	Yes	No
Have the requirements for full pattern approval submissions been explained?	Yes	No
Have the requirements for overseas pattern approval submissions been explained?	Yes	No
Have the requirements for variants to an existing pattern approval been explained?	Yes	No
Can the learner explain the application and use of pattern evaluation tests?	Yes	No
Has the temperature test been described and reasons for using it been given?	Yes	No
Has the voltage variation test been described and reasons for using it been given?	Yes	No
Has the damp heat steady state test been described and reasons for using it been given?	Yes	No

Has the short time power reduction test been described and reasons for using it been given?	Yes	No
Has the electrical bursts and transients test been described and reasons for using it been given?	Yes	No
Has the electrostatic discharge test been described and reasons for using it been given?	Yes	No
Has the immunity to radiated magnetic fields test been described and reasons for using it been given?	Yes	No
Has the endurance test been described and reasons for using it been given?	Yes	No
Has the test for protection against fraudulent use been described and reasons for using it been given?	Yes	No
Have the approval evaluation tests applicable to non-automatic weighing instruments been identified and has the reason for each test been explained?	Yes	No
Have the approval evaluation tests applicable to liquid measuring instruments been identified and has the reason for each test been explained?	Yes	No