

Title	Service microwave ovens		
Level	4	Credits	3

Purpose	<p>This unit standard is intended for technicians engaged in the servicing of microwave ovens.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – locate and define faults in microwave ovens; – repair and replace faulty components in microwave ovens; and – return microwave ovens to service.
----------------	---

Classification	Electrical Engineering > Electrical Appliance Servicing
-----------------------	---

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 This unit standard has been developed for learning and assessment under adequate supervision as defined in the Electricity Act 1992.
- 2 Competency under this unit standard does not entitle the candidate to legally perform prescribed electrical work without adequate supervision until the candidate has been registered and licensed under the Electricity Act 1992.
- 3 References
 Electricity (Safety) Regulations 2010;
 Electricity Act 1992;
 Health and Safety in Employment Act 1992, and associated regulations;
New Zealand Electrical Codes of Practice (Ministry of Business, Innovation and Employment, ISSN 0114-0663);
 and all subsequent amendments and replacements.
- 4 Definitions
Current regulations and standards – refers to the requirements of the above legislation and standards, applied to the context in which the term is used.
Industry practice – those practices, which competent practitioners within the industry recognise as current industry best practice.
- 5 Range
 - a Performance in relation to the outcomes of this unit standard must comply with current regulations and standards, and company safety and health procedures.
 - b Competence is to be demonstrated on at least three faulty microwave ovens.

Outcomes and performance criteria

Outcome 1

Locate and define faults in microwave ovens.

Performance criteria

- 1.1 Safety precautions are carried out in accordance with industry practice and current regulations and standards.

Range precautions – isolation from the supply, a check of chassis earthing, discharge of high voltage capacitor, anti-static measures.
- 1.2 A microwave leakage test is carried out, using an energy survey meter, and the result is compared with the allowable maximum value.
- 1.3 Output power is measured using a water temperature-rise test, and is compared with the manufacturer's designed output.
- 1.4 Faulty components are located and defined using tests and logical processes of deduction and elimination, and in accordance with manufacturer's servicing information.

Outcome 2

Repair and replace faulty components in microwave ovens.

Performance criteria

- 2.1 Viability of repair is assessed, taking into account cost of repair, availability of parts, time, and customer's or supervisor's instruction.
- 2.2 Repair or replacement is carried out in accordance with manufacturer's servicing information.
- 2.3 Tests are carried out in accordance with manufacturer's servicing information.

Outcome 3

Return microwave ovens to service.

Performance criteria

- 3.1 Testing in accordance with current regulations and standards confirms electrical safety.
- 3.2 Operational testing in accordance with servicing information confirms that the oven is serviceable.
- 3.3 Documentation is completed to company requirements.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 April 1994	31 December 2013
Review	2	23 April 1996	31 December 2013
Review	3	28 January 2001	31 December 2013
Revision	4	3 April 2001	31 December 2013
Review	5	20 June 2006	31 December 2022
Rollover and Revision	6	20 September 2012	31 December 2022
Revision	7	15 January 2014	31 December 2022
Review	8	28 January 2021	31 December 2022

Consent and Moderation Requirements (CMR) reference	0003
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.