

Title	Maintain a consistency or a viscosity measuring system		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – calibrate a consistency or a viscosity measuring system; and – maintain operation of and service a consistency or a viscosity measuring system.
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Classification	Industrial Measurement and Control > Industrial Measurement and Control - Maintenance
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been developed for learning and assessment in a workplace environment.
- 2 References

ANSI/ISA-51.1-1979 (R1993) *Process Instrumentation Terminology*;
 Electricity Act 1992;
 Electricity (Safety) Regulations 2010;
 Health and Safety at Work Act 2015 and associated regulations;
 ISSN 0114-0663, *New Zealand Electrical Codes of Practice*, available from Worksafe, <https://worksafe.govt.nz/>;
 and all subsequent amendments and replacements.
- 3 Definitions

Industry requirements – includes all asset owner requirements; manufacturers' specifications; enterprise requirements which cover the documented workplace policies, procedures, specifications, and business requirements; and quality management requirements relevant to the workplace in which the assessment is carried out.

Maintain – planned activity during normal operation, to conserve or keep an item or piece of equipment in a state of repair and to ensure that this is done in a sustainable way.

PPE – Personal Protection Equipment that is appropriate to any job being undertaken and can include overalls, safety glasses, gloves, face masks, safety boots, ear muffs etc.

Service – planned activity during normal operation that involves inspection, cleaning, testing, adjusting or making minor repairs to a piece of equipment to ensure that it works properly.
- 4 Recommended skills and knowledge: Unit 28080, *Demonstrate knowledge of liquid analytical measurement systems*.

Outcomes and performance criteria

Outcome 1

Calibrate a consistency or a viscosity measuring system.

Performance criteria

- 1.1 Explain and follow safe work procedures.
- Range may include but is not limited to – isolation practice, temperature, pressure.
- 1.2 Select test equipment according to required accuracy and range of devices.
- Range may include but is not limited to – sample liquid, pulp sample, weights.
- 1.3 Identify and explain types and causes of typical errors.
- Range may include but is not limited to – wear, corrosion.
- 1.4 Calibrate equipment by making appropriate adjustments, to a specified accuracy.
- Range may include but is not limited to – zero, span, temperature compensation.
- 1.5 Produce calibration reports in accordance with industry requirements.

Outcome 2

Maintain operation of and service a consistency or a viscosity measuring system.

Performance criteria

- 2.1 Locate, interpret, and apply technical information for servicing equipment.
- 2.2 Explain and follow safe work procedures.
- Range may include but is not limited to – isolation practice, temperature, pressure.
- 2.3 Service and verify performance of a consistency or a viscosity measuring system to ensure continued operation.
- Range may include but is not limited to – tools, materials, parts, techniques, specifications.
- 2.4 Produce service reports in accordance with industry 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	31 October 1995	31 December 2013
Revision	2	30 October 1997	31 December 2013
Revision	3	3 April 2001	31 December 2013
Review	4	22 June 2001	31 December 2013
Review	5	19 May 2008	31 December 2019
Review	6	21 November 2013	31 December 2027
Rollover and Revision	7	28 June 2018	31 December 2027
Review	8	30 January 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.