

<b>Title</b>	<b>Filter beverage or related products using automated equipment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>12</b>

<b>Purpose</b>	People credited with this unit standard are able to: use safe working practices; complete preparations and filter beverage or related products; and shut down and clean filtration equipment.
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<b>Classification</b>	Food and Related Products Processing > Food Production - Beverages
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<b>Available grade</b>	Achieved
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**Guidance Information**

- 1 Legislation relevant to this unit standard includes but is not limited to the: Health and Safety in Employment Act 1992; Health and Safety in Employment Regulations 1995; Food Act 1981; Food Hygiene Regulations 1974; Food (Safety) Regulations 2002; Resource Management Act 1991; and their associated regulations and subsequent amendments.
- 2 Range  
*Equipment* may include but is not limited to:  
 filtration – membrane, pad, cartridge, diatomaceous earth or lees filters, centrifuge; pipework, hoses, pumps, valves, tanks.  
*Filter media* may include but is not limited to – diatomaceous earth, cotton, silica hydrogels, bentonite.
- 3 Definitions  
*Organisational procedures* refers to documents that include: worksite rules, codes, and practices; equipment operating instructions; production specifications; documented quality management systems; and health and safety requirements.  
*Related products* refers to household or personal care products.  
*PPE* refers to personal protective equipment and may include but is not limited to: protective clothing, gloves, safety glasses, headwear, footwear, hearing protection, safety devices.
- 4 Competence is to be demonstrated on at least three occasions of filtering using automated equipment.

**Outcomes and performance criteria**

**Outcome 1**

Use safe working practices.

**Performance criteria**

- 1.1 PPE is used in accordance with organisational procedures.
- 1.2 Work environment is kept clean and free from hazards in accordance with organisational procedures.
- Range hazards to – personnel, product, plant.
- 1.3 Documentation is referred to and/or completed in accordance with organisational procedures.

**Outcome 2**

Complete preparations and filter beverage or related products.

**Performance criteria**

- 2.1 Preparation activities for product filtering are in accordance with organisational procedures.
- Range may include but is not limited to – inspection of equipment, confirmation of sufficient product quantity and correct product characteristics, confirmation of downstream location, capacity and conditions.
- 2.2 Equipment is kept clean and free from contamination in accordance with organisational procedures.
- Range contamination – product residue, odours, cleaning agents, foreign objects.
- 2.3 Operation of equipment is in accordance with organisational procedures.
- 2.4 Balance, flow rate, and filter pressure of equipment is in accordance with organisational procedures.
- 2.5 Product is filtered to required quality, and is available for downstream operations in accordance with organisational procedures.
- 2.6 Where possible, problems in filtering process are identified, and solutions are implemented or recommended to optimise output and minimise wastage in accordance with organisational procedures.
- Range problems may include but are not limited to – safety, equipment, non-conforming product;  
solutions may include but are not limited to – notify maintenance need, replace filter media, repair fault, rework product.

**Outcome 3**

Shut down and clean filtration equipment.

**Performance criteria**

- 3.1 Product is isolated from filtration equipment prior to disassembly in accordance with organisational procedures.
- 3.2 Filtration equipment is shut down and cleaned in accordance with organisational procedures.

**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	27 August 1996	31 December 2022
Revision	2	15 May 1998	31 December 2022
Revision	3	12 October 1999	31 December 2022
Review	4	24 May 2005	31 December 2022
Review	5	28 January 2021	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0111
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.