

<b>Title</b>	<b>Clarify and stabilise beverages</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	This unit standard is for people who are currently working, or who intend to work, in jobs which involve the use of fining chemicals and heat to remove haze-forming compounds from beverages and to render beverages stable. People credited with this unit standard are able to: use safe working practices; prepare to clarify and stabilise beverages; and produce clarified and stabilised beverages.
----------------	--

<b>Classification</b>	Food and Related Products Processing > Food Production - Beverages
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

### 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; Weights and Measures Act 1987; and their associated regulations and subsequent amendments.
- 2 **Range**  
*Equipment* may include but is not limited to – pumps, hoses, tanks, scales, fittings, heat exchangers, refrigeration units.  
*Additives* may include but are not limited to: clarifying or stabilising additives such as bentonite, gelatine, tannic acid, cream of tartar, enzymes, carbon, or egg whites.
- 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.  
*Beverages* refers to any of: wines, vinegar, beer, or alcohol-based beverages.  
*Clarify* refers to the removal of haze-forming compounds by the addition of fining chemicals.  
*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 clarifying and stabilising beverages.

---

## 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

Prepare to clarify and stabilise beverages.

#### Performance criteria

- 2.1 Preparation for clarifying and stabilising beverages is in accordance with organisational procedures.
- 2.2 Clarifying and stabilising equipment is checked in accordance with organisational procedures.
- Range set up, operational, contamination free;  
contamination free – product residue, additives, cleaning agents,  
foreign matter.
- 2.3 Beverage for clarifying and stabilising is checked for availability in accordance with organisational procedures.
- Range quantity, temperature.
- 2.4 Clarifying and stabilising additives are available in accordance with organisational procedures.

### Outcome 3

Produce clarified and stabilised beverages.

**Performance criteria**

- 3.1 Production of clarified beverages is in accordance with organisational procedures.
- Range additive levels, temperature, free from haze-forming compounds; haze-forming compounds may include but are not limited to – metallics, proteins, potassium bitartrate crystals.
- 3.2 Production of stabilised beverages using fining chemicals is in accordance with organisational procedures.
- 3.3 Product wastage due to clarifying and stabilising beverages is minimised, and opportunities to rework non-conforming product are maximised.
- 3.4 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
Review	3	24 May 2005	31 December 2022
Review	4	28 January 2021	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0111
--	------

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