

<b>Title</b>	<b>Blend alcohol-based liquids using automated equipment</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	This unit standard is for people who are currently working, or who intend to work, in jobs which involve the diluting of high strength alcohol-based liquids in tanks. People credited with this unit standard are able to: use safe working practices; prepare to blend alcohol-based liquids; and produce blended alcohol-based liquids.
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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; Weights and Measures Act 1987; and their associated regulations and subsequent amendments.
- 2 **Range**  
*Equipment* may include but is not limited to: blending or storage tanks; pumps; filters; pipes; fittings.  
*Additives* may include but are not limited to: sugar, caramel, essences.
- 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.  
*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 blending alcohol-based liquids 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**

Prepare to blend alcohol-based liquids.

**Performance criteria**

- 2.1 Preparation for blending alcohol-based liquids is in accordance with organisational procedures.
- 2.2 Blending equipment is checked in accordance with organisational procedures.
- Range set up, operational, contamination free; contamination free – product residue, cleaning agents, foreign matter.
- 2.3 Products for blending are in accordance with organisational procedures.
- Range alcohol-based liquid, additives, water.

**Outcome 3**

Produce blended alcohol-based liquids.

**Performance criteria**

- 3.1 Production of blended alcohol-based liquids is in accordance with organisational procedures.
- Range quantity, additive levels, product specifications.
- 3.2 Where possible, problems in blending 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 equipment, repair fault, rework product.

- 3.3 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
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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