

<b>Title</b>	<b>Prepare and steep grain for malt production</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	This unit standard is for people who are currently working, or intend to work, in jobs which involve the steeping of grain for the production of malt. People credited with this unit standard are able to: use safe working practices; prepare to steep grain for malt production; and steep grain for malt production.
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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 Definitions  
*Organisational procedures* refer to documents that include: worksite rules, codes, and practices; equipment operating instructions; production specifications; documented quality management systems; and health and safety requirements.  
*Grain* refers to imported or local barley, oats, or wheat.  
*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.
- 3 Competence is to be demonstrated on three occasions of preparing and steeping grain for malt production.

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### 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 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 steep grain for malt production.

### **Performance criteria**

2.1 Preparations to steep grain for malt production are in accordance with organisational procedures.

2.2 Grain for steeping is in accordance with specifications for scheduled production.

Range specifications may include but are not limited to – quantity, dressed (cleaned), viable (will germinate).

2.3 Grain for steeping is batch weighed in accordance with organisational procedures.

2.4 Steeping tanks are clean and free from contamination in accordance with organisational procedures.

2.5 Services to steeping tanks are set to the required configurations in accordance with organisational procedures.

Range configurations may include but are not limited to – attemperated water, air, carbon dioxide extraction unit, compressors, pumps, fans, valves.

## **Outcome 3**

Steep grain for malt production.

### **Performance criteria**

3.1 Grain is steeped for malt production in accordance with organisational procedures.

3.2 Steeped grain is in optimum condition for germination in accordance with organisational procedures.

3.3 Transfer of steeped grain for germination minimises damage to grain and maximises potential for germination in accordance with organisational procedures.

3.4 Wastage of steeped grain is minimised in accordance with organisational procedures.

3.5 Problems with steeping grain are identified, rectified and/or reported in accordance with organisational procedures.

Range problems may include but are not limited to – blockages, leakages, pump failures.

**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	30 January 1997	31 December 2022
Review	2	19 August 2004	31 December 2022
Review	3	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>.