

Title	Germinate grain for malt production using salad box equipment		
Level	3	Credits	10

Purpose	This unit standard is for people who are currently working, or intend to work, in jobs which involve the germination of grains for malting. People credited with this unit standard are able to: use safe working practices; prepare to germinate grain for malting using salad box equipment; and germinate grain for malting using salad box equipment.
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Classification	Food and Related Products Processing > Food Production - Beverages
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Available grade	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, 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 germinating grain for malt production using salad box 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 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 germinate grain for malting using salad box equipment.

Performance criteria

2.1 Preparations to germinate grain for malting using salad box equipment are in accordance with organisational procedures.

2.2 Salad box is clean and free from contamination in accordance with organisational procedures.

2.3 Services to salad box are operational and set to the required configurations for scheduled production.

Range services may include but are not limited to – air intake, fans, water sprays, louvres, temperature controls.

2.4 Grain turning equipment is clean and operational in accordance with organisational procedures.

Outcome 3

Germinate grain for malting using salad box equipment.

Performance criteria

3.1 Grain is germinated for malting using salad box equipment in accordance with organisational procedures.

3.2 Temperature of grain bed is in accordance with production specifications.

3.3 Moisture level of grain bed is achieved in accordance with production specifications by applying water as specified.

3.4 Grain is turned in accordance with production specifications.

3.5 Grain is germinated in salad box and available for kilning in accordance with organisational procedures.

3.6 Germinated grain is in accordance with product specifications.

Range specifications may include but are not limited to – moisture, growth, rub-out, appearance.

3.7 Constraints to grain germination process are identified, rectified and/or reported in accordance with organisational procedures.

Range constraints may include but are not limited to – quality, quantity, equipment performance, safety.

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

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