

Qualifications

Diploma in Distilling

Module 1

Examination Syllabus 2021

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Unit 1: Cereals

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Cereals	 Barley Malting process Other cereals

Unit 2: Other Sources of Extract

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Other sources of extract	 Molasses Grapes Agave

Unit 3: Water

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Water	 Basic quality requirements of water Production requirements of water in distilleries Water sourcing Nutrients supplied by water

Unit 4: Materials Handling

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Cereal intake, handling, storage, and processing	 Malt performance – requirements of good quality malt Key malt analytical parameters and their measurement Malt delivery and handling Milling
Non-cereals intake, handling, storage, and processing	Molasses intake and processing

Unit 5: Cereal Wort Production

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Principles and purpose of mashing	 Mashing procedures for all-malt mash Cereal cooking Enzymes for GNS and whiskey production Wort Properties
Principles and purpose of wort separation	 Wort separation theory and methods Production and handling of co-products
Wort cooling and oxygenation	Wort cooling and oxygenation

Unit 6: Non-Cereal Wort Production

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Molasses wort production	 Composition of molasses Principles or mashing/pre-treatment Concerns for molasses wort production
Grape must production	 Pressing and destemming Pre-fermentation treatment Typical must composition
Agave mosto production	 Treatment of agave and preparation of mosto Composition of mosto

Unit 7: Yeast Biochemistry

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Properties of yeast and bacteria	 Properties of yeast Yeast reproduction Yeast classification
Yeast metabolism	 Carbohydrate metabolism by yeast Metabolic pathways Production of flavour compounds

Unit 8: Fermentation

Торіс	Candidates should understand and be able to demonstrate using detailed examples:
Yeast handling	Yeast handling in the distillery
Principle fermentation variables	 Progress fermentation Alcohol sensitivity of yeast
Fermentation technology	Fermentation vessel types and design
Non-cultured fermentation	 Microbial spoilage organisms in molasses Brandy fermentations Agave mosto fermentations