

Diploma Exam Specification

Diploma exams

The objective of IBD Diploma level exams is to give international recognition of comprehensive knowledge and understanding of Brewing, Distilling or Packaging.

The Examinations are a measure of the candidates' theoretical knowledge in the scientific principles and technology of these subjects. The Diploma in Brewing and Diploma in Distilling are pre-requisites for candidates wishing to progress to Master Brewer and Master Distiller qualifications.

Each Diploma is comprised of **three** modules. Modularisation of the Diploma allows candidates to set their own pace to complete the qualification, whether that is sitting one exam per year or three exams in one year. To attain the Diploma Level qualification, candidates must successfully complete all three Modules; the three Modules may be attempted in any order.

Module 3 for each Diploma focusses on Process Technology and Resource Management, candidates who have successfully passed Module 3 in one Diploma subject are exempt from Module 3 examinations should they choose to sit a different Diploma subject.

Examination Design

Each Diploma Module examination is three hours in duration and includes both short answer questions (SAQ's) and long answer questions (LAQ's)

The exam is split into 2 sections:

- Section A – SAQ's
 - This section of the paper is set in order to test candidates' **breadth** of understanding across the whole syllabus of the module
 - Typically, this section would contain around 30 questions covering the full breadth of the syllabus, worth 1 to 2 marks each
- Section B – LAQ's
 - This section of the paper is set to test candidates' **depth** of understanding of topics across the whole syllabus of the module
 - This section contains six questions, of which, the candidates need to select and answer **four**. Each question is worth 20 marks.

All of section A and four questions from section B must be completed within the allocated three-hour timeframe for the examination.

Examination details:

Study for the IBD Diploma Examinations.

Studying for an IBD qualification represents a significant commitment from a candidate and/or supporting employer. This section details the recommended

amount of study and highlights the level of time likely to be taken in preparation for your Diploma Level examination.

Every candidate that registers for a Diploma examination is issued credentials for Moodle, the platform IBD hosts the learning material for each of the Diploma exams on. The learning material follows the Diploma syllabus for each module and should only be considered the basis of study for candidates. In order to ensure they are sufficiently well prepared for their examinations, candidates should also make use of other resources such as journals, articles in the BDI, relevant industry and scientific literature as well as reflect on their own practical experience to ensure comprehensive understanding of each exam's syllabus.

In total, the IBD recommends 120 hours total study time for each module.

The IBD also recommends candidates read the Examiners Report from previous years' examinations.

Frequency of Examinations

Diploma examinations take place in June of each year. All three Modules are available in each session, although candidates may choose to enter as many modules as they wish.

Registration fees, registration deadlines and any special conditions will be communicated directly to registered candidates as well as on the IBD website.

Marking and Moderation

Marking and moderation of IBD Examinations follows extensive, structured and rigorous processes;

- Exam questions are authored, marked, and moderated by the Board of Examiners.
- Each examination submission is carefully marked against a pre-prepared and fully approved marking scheme/rubric.
- Moderation of examination marking is carried out by Senior Examiners adhering to a protocol signed off by the Chair of the Board of Examiners (CoBoE) followed by a series of moderation reviews led by the CoBoE in order to sign off all of the candidates results.

Once all three of the Modules have been passed, then the Diploma is awarded.

Awards

A number of awards are offered each year for the Diploma exams including:

- Best overall candidate by Module
- Best overall candidate by Qualification.

All candidates are automatically entered for the awards when they enter for the qualification. More information can be found on the IBD website.

Post nominals

Candidates that have successfully completed the Diploma, passing all modules will be awarded the use of the post nominal “Dipl. Brew”, Dipl. Dist or Dipl. Pack

Depth of Knowledge Required for the Examination

Unless otherwise stated, candidates are expected to achieve a detailed understanding of a topic, consistent with the objectives of the examination. The adjectives “basic” and “outline” are used when a lesser depth of knowledge is required.

“*The basic concept of ...*” means the ability to explain all the major principles, functions or purpose relevant to the topic, without the need to describe its intricacies.

“*An outline of ...*” means a summary description of the scientific principles, plant or process concerned.

Where there are references in the syllabus to chemical compounds, candidates are expected to know the scientific principles and significance of their role in the process. Knowledge of complex formulae and advanced chemistry is not required.

Where there are references in the syllabus to mathematical equations and simple calculations, candidates are expected to use straightforward mathematics in the specified applications relevant to brewery operations. Commitment to memory of complex equations and formulae is not required. However, candidates are expected to know the basic formulae which govern key scientific principles.

SI Units

SI UNIT NAME	SYMBOL	QUANTITY MEASURED
Ampere	A	Electric current
Degree Celsius	°C	Celsius temperature
Farad	F	Capacitance
Hertz	Hz	Frequency
Joule	J	Energy, work, quantity of heat
Joule per cubic metre	J/m ³	Energy density
Joule per kelvin	J/K	Heat capacity, entropy
Joule per kilogram	J/kg	Specific energy
Joule per kilogram kelvin	J/kgK	Specific heat capacity
Kelvin	K	Absolute temperature, sometimes referred to as thermodynamic temperature
Kilogram	kg	Mass
Kilogram per cubic metre	kg/m ³	Density, mass density
Metre	m	Length
Metre per second	m/s	Speed, velocity
Metre per second squared	m/s ²	Acceleration
Mole	mol	Amount of substance
Newton	N	Force
Ohm	Ω	Electric resistance
Pascal	Pa	Pressure, stress
Second	s	Time or time interval
Volt	V	Electrical potential or potential difference, electromotive force
Watt	W	Power

SI ACCEPTED UNIT NAME	UNIT SYMBOL	QUANTITY MEASURED
Minute	min	Time, 1 min = 60 s
Hour	h	Time, 1 h = 3600 s
Day	d	Time, 1 d = 86400 s
Litre	L	Volume, 1 L = 0.001 m ³
Tonne	t	Mass, 1 t = 1000 kg
Bar	bar	Pressure, "100 kilopascals go into a bar."
Dalton	Da	Atomic Mass
Poise	P	Absolute viscosity
SI DERIVED UNIT NAME	UNIT SYMBOL	QUANTITY MEASURED
Hectolitre	hL	volume, 1 hL = 100 l = 0.1 m ³
Millilitre	mL	Volume, 1 mL = 1 cm ³
Microlitre	μL	Volume, 1 μL = 1 mm ³
Micron, Mircometre	μm	Length, 0.001 mm