

**Requirements**This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No Co-requisite modules listed

No requirements listed

# BREW H4R01: Postdistillation Downstream Processing

	University University				
Module Title:		Post-distillation Downstream Processing			
Language of Instruction:		English			
Credits:	5				
NFQ Level:	8				
Module Del	ivered In	1 programme(s)			
Teaching & Learning Strategies:		Theory classes will be closely aligned to the practical classes. Emphasis will be given to case studies linking concepts to realistic situations.			
Module Aim:		The aim of this module is to give students a functional competency in the theorectical knowledge and the practical considerations in downstream distilling processes			
Learning O	utcomes				
On success	ful completion	of this module the learner should be able to:			
LO1 Describe and discuss the maturation process in distilling		d discuss the maturation process in distilling			
LO2 Establish the imporpackaging		e importance of product preparation for packaging and critique the elements necessary for quality control in			
LO3	LO3 Describe the Chemical Changes during Flavouring and Blending				
Pre-requisi	Pre-requisite learning				
	Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.				
No recommo	No recommendations listed				
	Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.				
No incompa	No incompatible modules listed				
Co-requisit	Co-requisite Modules				



### BREW H4R01: Postdistillation Downstream Processing

## **Module Content & Assessment**

#### **Indicative Content**

#### Post Distillation Flavour Development

The role of wood treatment. The process of maturation. Manufacture/source of casks. Heat treatment of casks, reuse/rejuvenation of casks. Cost implications of maturation. Calculation of losses. Changes in the spirit during maturation. Scottish Whisky laws. Reduction, filtration, colour adjustment and polish filtration. Quality standards for neutral spirit, chemical analysis, sensory characteristics. Gin Production Flavouring with botanicals. Other local products made from neutral spirit. Selection of botanicals for addition to gin. Gin flavourings – advantages/disadvantages. Gin distillation, production methods and gin quality. Vodka Production Production. Activated carbon treatment. Mouthfeel/flavour additions. Sensory evaluation. Analysis to detect irregular sources of alcohol in vodka. Flavour control Sensory evaluation, flavour wheels, flavour panels.

### **Maturation and Blending**

Preparation of product for packaging: reduction, product water quality, polishing. Water treatment.

Assessment Breakdown	%	
Continuous Assessment	70.00%	
Practical	30.00%	

#### Special Regulation

Students must achieve a minimum grade (35%) in both practical and CA components. IT Carlow reserves the right to alter the nature and timings of assessments

Continuous Assessment	tinuous Assessment			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	n/a	1,2,3	70.00	n/a

No Project

ractical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Final Examination	1,2,3	30.00	n/a

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



## BREW H4R01: Postdistillation Downstream Processing

# Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lab/Lecture	12 Weeks per Stage	3.00
Independent Learning	15 Weeks per Stage	5.93
	Total Hours	125.00

Workload: Part Time			
Workload Type	Frequency	Average Weekly Learner Workload	
Practicals	20 Weeks per Stage	3.00	
Independent Learning	20 Weeks per Stage	7.00	
	Total Hours	200.00	

# Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SABRE_B	Bachelor of Science (Honours) in Brewing and Distilling	8	Mandatory