

Module Title:	Beverage Packaging
Language of Instruction:	English
Credits:	5
NFQ Level:	8
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	In this level 8 module, the learning objectives, learning activities and assessments are constructively aligned. A variety of active learning strategies, facilitated by the VLE, Blackboard, will be employed: eg lectures, practical demonstrations, discussion, site visits, engagement with materials (texts, journals etc.) industry practice materials (case studies, live case examples, industry reports etc.). Learners will be expected to actively engage with module materials (online & offline) and with associated in class and out of class activities. This module will be assessed summatively via a continuous assessment which can include practical demonstration elements and a terminal exam.
Module Aim:	The aim on this module is that the student understands the raw materials used in the packaging of alcoholic beverages. Examples of such materials are aluminium, stainless steel, glass, paperboard, corrugated fiber board and plastics
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Distinguish between primary packaging materials - small and large pack
LO2	Examine secondary and Tertiary packaging materials
LO3	Differentiate between the various packaging machines on a packaging line and contrast the methods used to assess performance
Pre-requisite learning	
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content

Distinguish between primary packaging materials - small and large pack

Small pack primary packaging examples: Can and can end Glass bottle (RB and NRB) and closure The purpose and functions of secondary packaging Secondary packaging examples including: Board Sleeve wrap and multipack Fully enclosed carton (FEC) Ring Carrier Crate Shrink-film For the above examples the following will be covered: The usual materials of construction The key design elements Advantages and disadvantages The purpose and functions of tertiary packaging Tertiary package examples: Pallet Locator board Stretch and shrink-film For the above examples the following will be covered: The usual materials of construction The key design elements Advantages and disadvantages Plastic bottle and closure Label

Examine secondary and Tertiary packaging materials

The purpose and functions of secondary packaging Secondary packaging examples including: Board Sleeve wrap and multipack Fully enclosed carton (FEC) Ring Carrier Crate Shrink-film For the above examples the following will be covered: The usual materials of construction The key design elements Advantages and disadvantages The purpose and functions of tertiary packaging Tertiary package examples: Pallet Locator board Stretch and shrink-film For the above examples the following will be covered: The usual materials of construction The key design elements Advantages and disadvantages

Differentiate between the various packaging machines on a line

Typical layout of a packaging line before the filler The purpose of each key operational step pre-filler, including the depalletiser, conveyor systems, washing systems (e.g. crate, bottle, keg and cask) and empty container inspection Key principles of operation for those steps listed above Small and large pack depalletising systems Conveyor systems Returnable bottle and crate washing systems Large pack external and internal cleaning systems

Practical Demonstrations

Visits to packaging producers / converters / high speed packaging lines. Appraisal of packaging from trade.

Assessment Breakdown	%
Continuous Assessment	30.00%
End of Module Formal Examination	70.00%

Special Regulation

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

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Practical demonstrations/MCQ/short answers/site visit report/oral	1,2	30.00	n/a

No Project

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	2 hour examination (open-book or closed-book examination consisting of closed-ended and open-ended questions)	1,3	70.00	End-of-Semester

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

Module Workload

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

Module Delivered In

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