

No requirements listed

ZLAW C4100: Regulatory Affairs for Pharmaceutics

University					
Module Title:		Regulatory Affairs for Pharmaceutics			
Language of Instruction:		English			
Credits: 5					
NFQ Level:	8				
Module Deli	ivered In	1 programme(s)			
Teaching & Learning Strategies:		This programme will be delivered via lectures, class discussion, case studies, guest lecture, practical work, E-Learning, group work - collaborative and peer learning, directed and independent learning.			
Module Aim	1:	To prepare the learner for a career in the highly regulated pharmaceutical and medical device sectors.			
Learning O	utcomes				
On successi	ful completion of th	his module the learner should be able to:			
LO1	Evaluate the regulatory bodies, their guidance and the application of regulations/standards, risk management across the life cycle and guidance within the pharmaceutical and medical device sectors.				
LO2	Critique the content of quality management systems, auditing and how quality management systems are operated, applied, managed and reviewed and comply to multiple regulatory bodies and standards.				
LO3	Examine the regulatory requirements for the design of a medical device or pharmaceutical product and appraise how clinical trials are regulated and pharmaceutical and medicinal products are evaluated prior to approval and commercialization.				
Pre-requisit	te learning				
	commendations learning (or a prac	ctical skill) that is recommended before enrolment in this module.			
No recomme	endations listed				
Incompatible These are m		re learning outcomes that are too similar to the learning outcomes of this module.			
No incompatible modules listed					
Co-requisite Modules					
No Co-requisite modules listed					
Requirement This is prior		ctical skill) that is mandatory before enrolment in this module is allowed.			
	No. 10 September 1991				



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Module Content & Assessment

Indicative Content

Content

1. FDA, EU, and ISO (Regulatory bodies, Regulations, standards and guidance). 2. Quality management systems and harmonization. 3. Design and development (Quality by design). 4. Clinical evaluation of medical devices and pharmaceuticals. 5. Auditing (Maintaining an audit ready status and complying with multiple regulatory standards). 6. Regulatory filings, applications ANDA and NDA. 7. Product programme management, vigilance, surveillance. 8. Risk management (Product life cycle).

Described content

1. Structure and content of guidance documents, regulatory bodies and certification / accreditation agencies. Introducing students to compliance as a discipline and way of operating in an organisation. 2. Standards EU and FDA code of regulations as well as ISO 9001 and ISO 13485. Managing compliance to regulatory bodies in regards to design and development of products. 3. Quality management systems, to develop an understanding in the student of how a medical device or pharma company manages compliance to policies procedures and standards, and manages quality and continuous improvement initiatives. 4. Clinical evaluation of drugs and medical devices this module will demonstrate the type of data required to allow a product undergo clinical evaluation and how an organisation manufactures from the perspective of small scale start up pilot programmes for release of material for clinical trials. 5. Developing auditing as a skill the student will learn how to perform internal audits and prepare for external audits from the FDA, EU, HPRA and other regulatory agencies such as the ISO or INAB. 6. Vigilance this module will illustrate how the healthcare sector manages the safety and efficacy of the products are assured and monitored once on the market. It will also describe how a company responds to customer complaints and complies with regulations regarding serious adverse events and reporting of these events to regulators and national competent authorities? 7. How risk management is applied to medical device and pharmaceuticals across the life cycle of the products. This will develop in the student an understanding of risk as a concept in drug or medical device development as well manufacturing and introduce the terminology documentation and procedures they will be required to complete and adhere to in industry.

Assessment Breakdown	%
Continuous Assessment	40.00%
End of Module Formal Examination	60.00%

Special Regulation

Learners must achieve a minimum grade (35%) on CA and Final Examination

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Written Report	Written report on the regulatory requirements for medical device design	1	20.00	Week 12
Written Report	Report on the regulatory requirements for pharmaco-vigilance surveillance of pharmaceutical products	2	20.00	n/a

No Project

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Final written exam	1,2,3	60.00	End-of-Semester

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



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	3.00
Independent Learning	12 Weeks per Stage	7.42
	Total Hours	125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SAPHA_B	Bachelor of Science (Honours) in Pharmaceutics and Drug Formulation	8	Mandatory