POSTGRADUATE DIPLOMA IN PHARMACEUTICAL TECHNOLOGY AND QUALITY SYSTEMS

Overview

NFQ Level 9, Major Award

Exit Award only

A candidate on the MSc (Pharmaceutical Technology and Quality Systems) (https://ucc-ie-public.courseleaf.com/programmes/mscptq/) programme who passes all taught modules in Part I (60 credits) may opt to exit the programme and be conferred with a Postgraduate Diploma in Pharmaceutical Technology and Quality Systems.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title	Credits
Part I - Taught Modules [1]		
Students take **60** credits as follows:		
Core Modules		
PF6200	Pharmaceutical Chemistry	10
PF6201	Pharmaceutical Dosage Form Design	5
PF6202	Pharmaceutical Manufacturing - API to Finished Product	5
PF6203	Pharmaceutical Microbiology and Sterile Manufacturing	5
PF6204	Pharmaceutical Development of Investigational Medicinal Products	5
PF6205	Pharmaceutical Biotechnology	5
PF6206	Pharmaceutical Statistics and Process Control	5
PF6207	Pharmaceutical Plant and Process: From Design through to Validation	5
PF6208	Quality Management Systems and Regulatory Affairs	5
PF6209	Role and Professional Duties of the Qualified Person	5
PT6401	Pharmacology	5
Total Credits		**60**

[1] Taught modules will be offered on a cyclical basis over alternative years.

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Oucomes for Postgraduate Diploma in Pharmaceutical Technology and Quality Systems (NFQ Level 9, Major Award)

On successful completion of this programme, students should be able to:

- Identify and evaluate the role of Quality Systems and Good Manufacturing practices (GMP) in the pharmaceutical industry, and to be aware of the latest trends in good clinical, manufacturing, laboratory, validation and distribution practices;
- Define the legal basis and professional duties of the Qualified Person as defined by EC Directive 2001/83/EC and apply a risk based approach to the evaluation of quality, safety and efficacy of pharmaceutical products;
- Derive and apply a science based approach to solving quality based problems in the manufacture of pharmaceuticals;
- Demonstrate a comprehensive knowledge of pharmaceutical sciences, which includes a sound basis in pharmaceutical chemistry and analysis, pharmacology, pharmaceutics, microbiology and biochemistry;
- Apply the principles of pharmaceutical dosage-form design and the technologies involved in industrial manufacture of medicinal products (both sterile and non-sterile) to the production of pharmaceutical products;
- Outline the stages of industrial drug development, from drug discovery, development, testing and clinical trials, registration and post marketing activities;
- Recognise the role and influence of regulatory bodies which controls the development, registration, manufacture and distribution of pharmaceutical products;
- Work effectively as an individual, in teams and in multi-disciplinary settings.