

# POSTGRADUATE DIPLOMA IN PHARMACEUTICAL TECHNOLOGY AND QUALITY SYSTEMS

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## Programme Learning Outcomes

Programme Learning Outcomes 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, pharmaceuticals, 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.