

POSTGRADUATE DIPLOMA IN PHARMACEUTICAL AND BIOPHARMACEUTICAL ENGINEERING

Programme Learning Outcomes

Programme Learning Outcomes for Postgraduate Diploma in
Pharmaceutical and Biopharmaceutical Engineering (NFQ Level 9, Major
Award)

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

- Apply an enhanced knowledge and understanding of the mathematics, sciences, engineering sciences and technologies to pharmaceutical and biopharmaceutical engineering;
- Identify, formulate, analyse and solve problems related to pharmaceutical and biopharmaceutical engineering;
- Design pharmaceutical and biopharmaceutical manufacturing facilities and processes, including unfamiliar, ill-defined scenarios, underpinned by a sustainability informed paradigm, taking account of environmental, health and safety and risk factors, and know how to apply relevant codes of practice, industry standards and emerging practices and technologies;
- Gather experimental data, apply a range of standard and specialized research tools and techniques and conduct critical evaluation of results;
- Effectively design experiments and gather experimental data, apply a range of standard and specialized research tools and techniques and conduct critical evaluation of results;
- Work effectively as an individual and in teams in planning and carrying through on assignments and projects in a lifelong learning context;
- Communicate effectively with the engineering community and with society at large.