

POSTGRADUATE DIPLOMA IN INDUSTRIAL PHARMACEUTICAL SCIENCES, OPERATIONS AND MANAGEMENT

Programme Learning Outcomes

Programme Learning Outcomes for Postgraduate Diploma in Industrial Pharmaceutical Sciences, Operations and Management (NFQ Level 9, Major Award)

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

- Design, differentiate, and execute biopharmaceutical unit processes and analytical methods in a good manufacturing practice (GMP) environment.
- Critique the theoretical aspects of quality systems, regulatory processes, and validation approaches.
- Appraise common manufacturing issues encountered in the biopharmaceutical industry using scientific problem solving and data analysis.
- Apply Lean Six Sigma, supply chain, and project management principles within an operations environment in the pharmaceutical sciences sector and beyond.
- Collaborate, lead, and manage effectively within the workplace through the application of leadership, organisational dynamics, and management theory.
- Evaluate, identify, and describe trends in digital transformation, industry 4.0 as applied to the biopharma industry (Pharma 4.0)
- Compare and contrast data and data analytics and appraise how data analytics can be used to manage and improve manufacturing processes in the biopharma industry.