

## WHAT OUR GRADUATES ARE SAYING



“JOANNA GALLON, INNOPHARMA EDUCATION GRADUATE

Lecturers are really helpful. The course has the online lectures so anytime I couldn't go to college to study I could replay the recorded sessions which meant I never missed a class.”

“DAVID MCCALDIN, INNOPHARMA EDUCATION GRADUATE

The lecturers at Innopharma related their topics to real life working environment. With the knowledge and experience I gained during my time with Innopharma Education, I secured my dream job shortly after graduating.”



“PADRAIG WALSH, INNOPHARMA EDUCATION GRADUATE

I found the delivery of the programme and the lecturers to be incredibly accommodating. The course fit in with my work schedule at the time. I had the opportunity to study in the evenings or if I missed a lecture I could always go back and replay it, so I never felt like I was missing out on anything.”



## CHANGE DIRECTION, ADVANCE YOUR CAREER



## CERTIFICATE IN OPERATIONAL EXCELLENCE FOR DIGITISATION

NFQ Level  
6



Future skills for an Operator or Technician to work in a Digital Environment. Skills focusing on Supply Chain, Operational Excellence, Lean, Six Sigma and Digital Communications.

### DELIVERING EXCELLENT RESULTS

Over 70% of our Innopharma Graduates have successfully advanced their career post completion of our courses.

### About Innopharma

Innopharma Education operates at the forefront of skills and learning in high-tech manufacturing, advancing skills and capabilities across the pharmaceutical, medtech and food science industries.

Established in 2009, we work with our education partners to develop and deliver industry-focused and accredited qualifications to meet the needs of Ireland's growing STEM sectors.

Specifically designed for those who wish to change or advance their career in the pharmaceutical, medical device or food sectors, our courses upskill and equip people from diverse backgrounds with the knowledge and skills necessary to successfully secure promising career opportunities in these fast-growing sectors.

Innopharma Technology design and develop pharma 4.0 data and technology solutions to help development and manufacturing teams improve their processes and deliver better outcomes in drug manufacturing.

For more information on our award winning range of courses contact us on:

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e-mail: [admissions@innopharmalabs.com](mailto:admissions@innopharmalabs.com)  
Visit our website on [www.innopharmaeducation.com](http://www.innopharmaeducation.com)  
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- Digital transformation is the integration of technology into all aspects of manufacturing and support services across many industries and sectors.
- Process digitisation is the first step on the journey to digital transformation.
- Employees are now required to have a broader range of skills combining knowledge of supply chain, information technology, systems architecture, data analytics and operational excellence.
- Develop your knowledge of supply chain, operations management, operational excellence and digital communications.
- Flexible blended learning options.
- Develop your critical thinking and problem solving skills as well as develop greater self-awareness and agility.
- Programme delivered by highly experienced academic and industry lecturers.

### ENTRY REQUIREMENTS

NFQ level 5 or Leaving Certificate (or equivalent) with a minimum of H7/O6 in five Leaving Cert subjects, one of which must be mathematics. Learners who do not meet the minimum mathematics criteria can avail of free access to a self-paced mathematics bridging programme and examination to facilitate entry.

### ACCREDITATION

QQI Level 6 Certificate in Operational Excellence for Digitisation (60 ECTS) (Subject to QQI Approval).

### DURATION AND HOURS

This part time programme runs over 3 semesters. Lectures are delivered 2 evenings per week and 2 Saturdays per month. Evening online lectures are broadcast live and recorded. Saturday lectures are classroom based and students are required to attend.

### ACADEMIC PROGRESSION

Graduates can progress to the full Higher Certificate in Process Digitisation by completing the Certificate in Information Technology for Digitisation.



# UPSKILL FOR THE ADVANCED MANUFACTURING SECTOR IN IRELAND

Higher Certificate in Science in  
Process Digitisation (120 ECTS)

Certificate in  
Operational  
Excellence for  
Digitisation  
(60 ECTS)

Certificate in  
Information  
Technology for  
Digitisation  
(60 ECTS)

WHY UP-SKILL WITH THIS  
COURSE?

**80% of business  
leaders**

believe that digital  
transformation is vital to their  
industry

**40% of Irish  
businesses**

will need support adopting  
digital transformation in  
coming years

**Major  
Investment**

Planned within digital  
transformation in Ireland over  
coming years

## Who is the programme for?

This programme is ideal for mature learners who are employed/seeking employment in a manufacturing environment or support service and wish to develop the knowledge, skills and competencies to take up roles as 'Operators and Technicians of the Future'. This programme will produce graduates able to actively support the Industry 4.0 transition underway across Ireland's advanced manufacturing/support services sector.

## Process Digitisation Skills – Focus on Operational Excellence

Process Digitisation is the first step in any organisations digital transformation journey. It is the process of making information available in a digital format. Advanced manufacturing organisations require a workforce with skillsets that enable them to interact with information technology, monitor process performance, analyse data and contribute to business improvement.

This programme focuses on the Operational Excellence aspects of digitisation. On successful completion of the programme learners will have the knowledge and skills to keep pace with rapidly occurring changes in the areas of supply chain management, operations management, operational excellence, data analytics, mathematics, statistics and digital communications.

## Transversal Skills & Career Progression

In addition to a range of technical skills, the learner will develop a set of transversal skills focusing on critical thinking, problem solving, adaptability, agility and self-awareness. Learners will also develop the skills to present their competencies through CV workshops, interview skills and networking.

# FUTURE MANUFACTURING

Operational Excellence



## CAREER OPPORTUNITIES

- Manufacturing Operator
- Manufacturing Technician
- Product Builder
- Process Technician
- Logistics/Warehouse Operator
- Business Improvement Specialist
- Supply Chain Support

# COURSE CONTENT

Operational Excellence for Digitisation

## FUNDAMENTALS OF MATHS AND STATISTICS ECTS CREDITS: 10

Basic mathematical concepts, equations, graphs, geometry, statistics and probability.

## TRANSVERSAL SKILLS ECTS CREDITS: 5

Critical thinking, agility, adaptability, emotional intelligence, self-awareness and employability skills, CV preparation, interview skills.

## OPERATIONS MANAGEMENT & SUPPLY CHAIN MANAGEMENT ECTS CREDITS: 5

Operations and supply chain management, forecasting and capacity management, inventory management and quality management.

## OPERATIONAL EXCELLENCE – LEAN THINKING ECTS CREDITS: 10

Value, non-value, lean thinking, value stream mapping, process mapping, 5S, SMED, Poka Yoke, Kanban.

## OPERATIONAL EXCELLENCE – SIX SIGMA ECTS CREDITS: 10

Problem solving techniques, six sigma, DMAIC, data integrity, root cause analysis and innovation.

## EMERGING TRENDS IN OPERATIONS MANAGEMENT ECTS CREDITS: 10

Future trends in supply chain and operations management, blockchain, manufacturing execution systems.

## FUNDAMENTALS OF PROJECT MANAGEMENT ECTS CREDITS: 5

Project management methodologies, return on investment and risk evaluation, Gantt charts, roles and responsibilities.

## DIGITAL COMMUNICATION AND TECHNICAL REPORTING ECTS CREDITS: 5

Technical communications, presentations, graphical communications, infographics.

