

# The Cranfield Senior Leader Apprenticeship+

Operations Excellence MSc

Creating operations  
professionals in  
manufacturing



**Master's level apprenticeships**  
Cranfield Masterships®

[www.cranfield.ac.uk/opex](http://www.cranfield.ac.uk/opex)

# Developing individuals capable of delivering business change

**The Operations Excellence course addresses the need for highly-trained operations professionals required to transform operations into a world-class business in all sectors of manufacturing.**

The course was developed by Cranfield through a unique partnership with Rolls-Royce and the Institute for Manufacturing at the University of Cambridge. It is structured to allow maximum benefit from learning with minimum time away from the employee's business. The course creates employees who can design and implement change that delivers improved business performance. The Operations Excellence course brings together expertise across several disciplines to inform industry and help companies develop a competitive advantage. Apprentices learn from other cohort members, industry practitioners and from developing solutions to specific issues through group and individual projects. Industry experts teach alongside academics from Cranfield and Cambridge who have a wealth of experience in operations excellence.

## Developing your workforce

### Who is it for?

Operations Excellence is ideally suited to companies who want to accelerate the development, and improve retention of their trained operations staff by enhancing their postgraduate development and training.

Apprentices on the Operations Excellence course benefit from this infrastructure which also supports our work with industrial partners. Your staff will have access to computing facilities and laboratories suitable for general purpose and engineering applications. A vast range of specialist software applications are available including Witness, SAP, NVIDIO and CAD IDEAS.

### Benefits to your organisation

Operations Excellence enables people to deliver business change. As an employer you will benefit from the start as apprentices will be able to deliver improvement actions, taking what they have learned in the course and applying it in the business environment. Over the two years your staff will develop competencies in leading change and your employee will be capable of taking on much greater responsibility or delivering change across the whole business.

This course is open to people from a wide range of companies, delegates will learn from industry-active academics, industry practitioners with a wealth of operations excellence experience, and from developing solutions to individual issues through the group and individual projects.

### Benefits to your learners

Industry has transitioned from traditional and labour-intensive to knowledge-intensive and forward-thinking. Apprentices on this course will be able to accelerate their career while delivering bottom-line benefits for the business. We aim to address the need for highly trained individuals with the skills to:

- Improve performance and productivity,
- Drive efficiencies,
- Improve quality,
- Streamline processes,
- Improve the bottom line.



Projects that **advance your organisation's** strategic agenda



Designed to **meet the training** needs of industry



Course structured to allow **minimum time away from the working environment**



Individual project conducted in your workplace solving **real-life challenges**



## Programme details

Our Senior Leader Apprenticeship+ Operations Excellence MSc programme has been designed in two parts. Part I enables students to gain an understanding of both general management functions, including team management, supply chain management, business and manufacturing strategy, alongside specialist and advanced subjects related to effective factories, leading change in operations, technology management, operations assessment and improvement, innovation management. The academic award at the end of Part I is a postgraduate diploma (PgDip).

Apprentices, subject to successful completion of the taught modules in Part I, are eligible to progress onto Part II, the Operations Excellence MSc, which enables them to apply their learning by completing a significant work-based project within their organisation.

## Apprenticeship and the end-point assessment

The programme has been designed to meet the requirements of the Level 7 Senior Leader Apprenticeship Standard. Eligible organisations are able to use £14,000 of their Apprenticeship Levy to cover Part I (PgDip) of the programme tuition fee. Part II costs £7,000 and can be funded by the employer or employee and constitutes a thesis project required for the MSc award. Apprentices will be required to undertake an End Point Assessment to complete their apprenticeship, this takes place after the MSc study has been completed.

The End Point Assessment involves the presentation of evidence collected throughout the apprenticeship evidencing the knowledge, skills and behaviours obtained. Apprentices will also be required to undertake a short presentation and a professional discussion.

## Modules

Business and Manufacturing Strategy
Effective Factories
Technology Management
Leading Change in Operations
Operations Assessment and Improvement
Innovation Management
Supply Chain Management
Team Management
Manufacturing in Practice (Study Tour)
Group Project

## Key information



**Start date**  
October



**Award**  
MSc  
Apprenticeship



**Duration**  
28 months  
part-time



**Typical cohort size**  
10 - 20 delegates



**Location**  
Cranfield  
campus



**Fees**  
£14,000 for the  
apprenticeship (PgDip)  
  
An additional £7,000 can  
be paid to continue on to  
a master's (MSc) degree.  
The total fee for the MSc  
is therefore £21,000. (Note  
that this additional £7,000  
is not covered by the  
apprenticeship funding).





## Cranfield University

Cranfield is a specialist postgraduate university that is a global leader for education and transformational research in technology and management. We are focused on the themes of aerospace, defence and security, energy and power, environment and agrifood, manufacturing, transport systems, and water.

Home to many world-class, large-scale facilities which enhance our teaching and research, we have 4,500 postgraduate students each year, with over half studying part-time. We have the largest number of engineering and technology postgraduates in the UK and award over five percent of the UK's engineering and technology PhDs each year.

We employ over 1,500 staff, making our academic staff-to-student ratio one of the best for any university in the UK and the world (one member of academic staff to every five students).

We work closely with business, industry and government across the world. Through our industry partnerships, applied research projects and our executive education and professional development programmes, we currently work with over 1,500 companies and organisations based in over 40 countries.

### Contact:

Cranfield University  
Cranfield  
MK43 0AL, UK







T: +44 (0)1234 754930

E: [masterships@cranfield.ac.uk](mailto:masterships@cranfield.ac.uk)

You can also contact the Course Director Patrick McLaughlin directly:

T: +44 (0)1234 755484

E: [p.mclaughlin@cranfield.ac.uk](mailto:p.mclaughlin@cranfield.ac.uk)

	Cranfield University
	<a href="https://blogs.cranfield.ac.uk">blogs.cranfield.ac.uk</a>
	<a href="https://twitter.com/cranfielduni">@cranfielduni</a>
	<a href="https://www.youtube.com/cranfielduni">@cranfielduni</a>
	<a href="https://www.facebook.com/cranfielduni">/cranfielduni</a>
	<a href="https://www.instagram.com/cranfielduni">/cranfielduni</a>

Every effort is made to ensure that the information in this leaflet is correct at the time it is printed.

Please visit [www.cranfield.ac.uk/opex](https://www.cranfield.ac.uk/opex) for the latest details.

May 2022