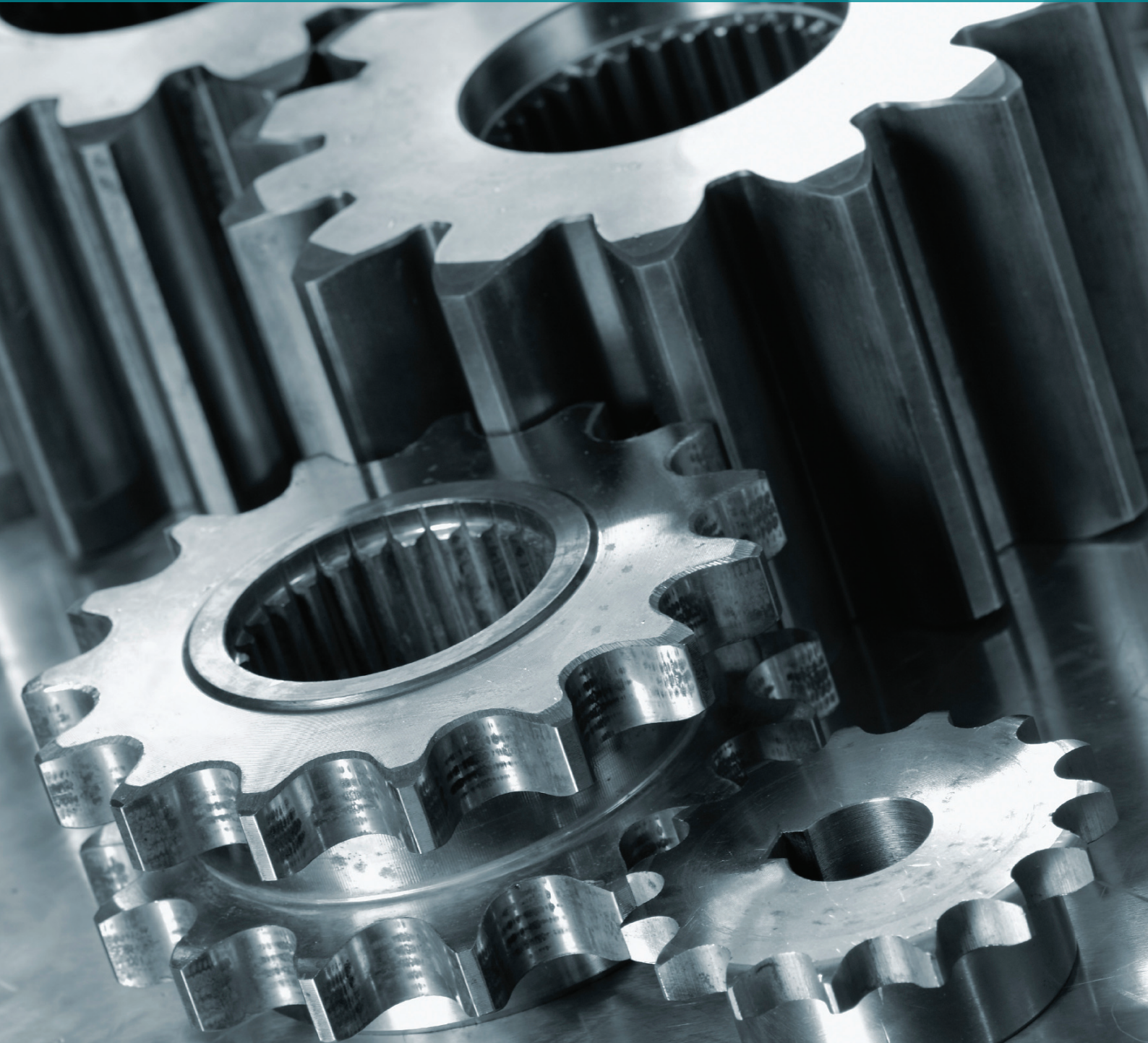




Advanced Industry Materials Saving Programme



Advanced Industry Materials Saving (AIMs) Programme

The Advanced Industry Materials Saving Programme (AIMs) is designed to increase the productivity and sustainability of the 'advanced manufacturing' sector in the Belfast City Council and Lisburn City Council regions.

The programme includes three main elements:

- the implementation of 'Lean manufacturing' techniques,
- the improvement of product design through 'Value Analysis', and
- the reduction of materials and energy usage.

Objectives

The overall objective of AIMs will be to generate a total of £1.5m profit improvement in the 36 participating companies by using 'Lean' and design tools. Improvements in workflow management will be combined with higher value design to improve productivity.

Research shows 'lean' implementation in Northern Ireland is lower than in the Republic of Ireland and the rest of the UK. Local companies may be operating at a competitive disadvantage as a result. High levels of 'work in progress' keeps money tied up on the shop floor. Removing the excessive 'work in progress' allows delivery performance and productivity to be improved. At the same time money is released for investment.

Delivery

Each company will benefit from three workshops:

- Lean Manufacturing Simulation,
- Value Stream Analysis and
- Materials and Energy Value Analysis.

Participants will also benefit from five days mentoring support. This support will be delivered by qualified 'Lean' and design consultants to ensure that projects succeed. Additional mentoring support to address sustainability will also be organised using specialist agencies, if required. The AIMs programme lasts for one year.

Workshop One - 'Lean Manufacturing Simulation'

A practical look at Lean manufacturing principles through a live manufacturing simulation workshop which shows you how to:

- increase productivity,
- increase operator flexibility to meet customer requirements,
- reduce work in progress,
- improve quality, and
- improve on-time delivery.

Participants will experience first hand a successful 'Lean cell' in operation.

Workshop Two - 'Value Stream Mapping'

Value Stream Mapping is a powerful tool used to create a material and information flow map of production processes. It maps the flow of products from raw materials, through all the manufacturing process steps, and shipping as finished product. It also maps the information flow from the customer, through your organisation and to your suppliers – a technique known as the Value Stream. You start by analysing your 'current state map', which identifies where you are. You then plan your lean implementation with a 'future-state map', which shows you where your company is going and how you will get there.

How it works: This workshop combines lecture and hands-on analysis of a typical company. You will learn the steps necessary to identify the waste in the system in order to visualise a future state. You will learn how to prepare your company for a lean implementation by:

- documenting both material and information flows,
- defining 'baseline metrics', and
- developing a plan to achieve the future state.

Outcomes and benefits: You will learn how to establish a holistic understanding of the total manufacturing process, and will learn a common language for describing the process.

Workshop Three - 'Value Analysis'

Value analysis improves the value of a product or process by understanding its constituent components and their associated costs. It then finds improvements to the components by either reducing their cost or increasing the value of the functions to the customer.

Materials and energy value analysis will extend this process to derive the best value from the material and energy content of the product or process to ensure its sustainability.

"Wilsanco has benefited from a Lean Manufacturing implementation programme in waste reductions worth in excess of £200,000 to our company"

Jerome Kerr,
Production Manager, Wilsanco

"Implementing the Lean Value Stream quickly reduced our stock and work in progress whilst improving delivery performance. Lead-time and stock reductions of 25% put £100,000 back into our bank account".

Dr David Neilly
Managing Director, Franklins

Does my company need Lean?

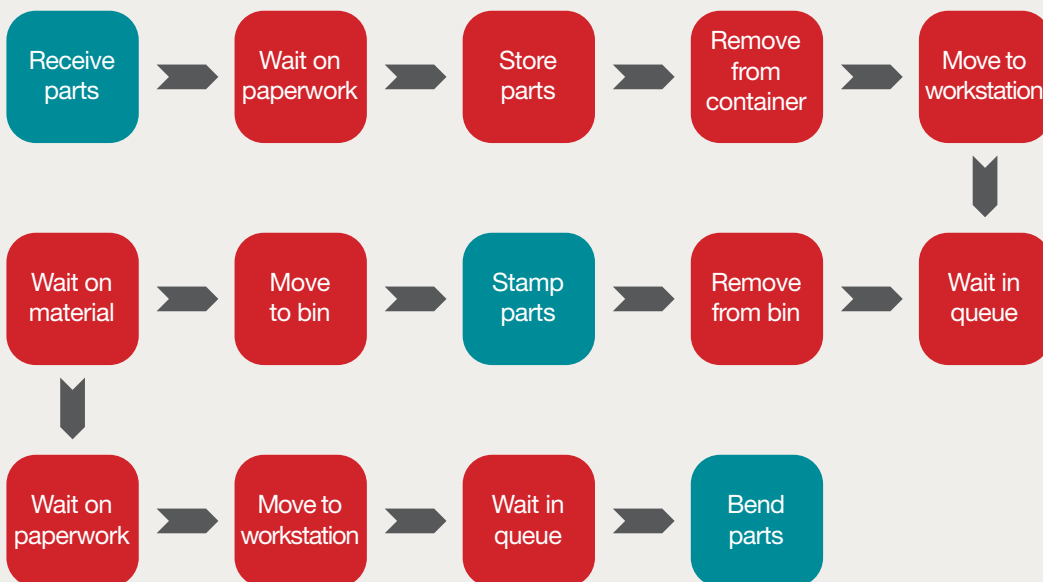
Lean makes use of many tools and techniques. Each contributes to:

- increasing productivity,
- reducing work-in progress,
- saving floor space,
- improving quality, and
- reducing lead-times.

Batch manufacturers, process manufacturing, job shops, agriculture, services and administration can all benefit greatly.

Lean implementation systematically identifies and eliminates non-value-added activities (waste) in companies.

Examine the flow chart for a typical manufacturing process. The red circles are waiting queues which equate to waste and loss of profitability. See anything familiar? This is where Lean can help.



Six steps of implementing Lean throughout your company:

- **Step one:** Company assessment using one of the following tools: benchmarking, Lean diagnostic, competitiveness assessment.
- **Step two:** Lean concepts training with live manufacturing simulation.
- **Step three:** Value Stream Mapping training and implementation.
- **Step four:** Design and planning.
- **Step five:** Implementation of plan in a pilot area.
- **Step six:** Lean enterprise – full implementation of lean throughout the company.

Contact information

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