



Course

Level 2 Lean Manufacturing Operative Logistics/Material Handling Apprenticeship standard



Summary

Knowledge

- Health and safety
- Environmental
- Production
- Lean operations
- Quality control
- Problem solving
- Continuous improvement
- Communication
- Work place organisation

Skills

- Health and safety
- Environmental
- Production
- Lean operations
- Quality control
- Problem solving
- Continuous improvement
- Communication
- Work place organisation

Behaviours

- Team-working
- Professionalism
- Continuous development
- Adaptability

Learn more about the responsibility of carrying out manufacturing activities on one or more products at the same time, in a fast paced environment.

When you're working as a lean manufacturing operative in a production/assembly role, you will need to carry out your work safely and meeting exacting quality standards in a fast paced and efficient processing environment.

Who is it for?

The UK manufacturing industry is highly regarded worldwide for its innovation and excellence. If you have a logical mind, enjoy the detail of processes and thrive on a challenge, then working as an apprentice in this fast paced environment is for you.

What will you learn?

You will learn about manufacturing processes and standard operating procedures to help you prepare, control, contribute to and complete manufacturing operations. With this knowledge you will develop and support improvement in the manufacturing operation using continuous improvement methods, kaizen tools, process visualisation using lean principles and problem solving tools and techniques. You will develop into a multi-skilled operator with a specialist knowledge in the safe handling and movement of materials and the logistics involved to achieve that.

Alongside this, and following an initial assessment, we will work with you, your manager and mentor to create an individual training plan. This will include skills development such as reading, writing, speaking, listening and communication in English, as well as maths, in preparation for Levels 1 and 2 Functional Skills. There will also be activities and learning to improve your personal soft skills.

What comes next?

On completion of your apprenticeship, you will receive a Level 2 Diploma in Manufacturing (certified by EAL).



Knowledge

Area	Learning aims and development
Health and safety	 Relevant statutory, organisational and health and safety regulations relating to lean manufacturing operations and safe practices What tools and equipment are used for the material movement operations undertaken and how to check that they are in a safe and usable condition The lifting and handling procedures and load bearing capacities of the equipment being used
Environmental	Compliance procedures/systems in line with regulatory requirements e.g. ISO 14001 or other relevant environmental standards
Production	 Your individual roles and responsibilities within the organisation and the flexibility required to deliver products to meet customers costs/delivery targets/requirements e.g. Just in time (JIT) The procedures and documentation required to allow the transfer of materials to take place Where to obtain the necessary job instructions, specification details and specific transfer/handling procedures that are used and how to interpret them The procedures for the movement and transferring of materials to the correct location within given timelines
Leaning manufacturing operations	 Manufacturing standard operation procedures (SOPs) adherence and development of lean processes
Quality control	 Process equipment monitoring, data collection, error proofing and operating procedures e.g. ISO 9002 or other relevant quality standards
Problem solving	 The tools and methods of effective problem solving using data, reports and documents to resolve production related issues e.g. A3 report, graphs, matrices and escalate concerns
Continuous improvement	 How to study and identify ways to improve the safety, quality, cost or process efficiency using lean manufacturing tools e.g. kaizen
Communication	 How to share information using a range of methods within the manufacturing environment e.g. oral, written, electronic, information boards, visual displays
Work place organisation	 How to maintain a safe and efficient work site through work place organisation e.g. 5s and process ownership



Skills

Area	Learning aims and development
Health and safety	 Work safely at all times, complying with health and safety legislation, regulations, and other relevant guidelines Identifying risks within your processes and support/carry out countermeasure activities to improve safe working Manage tooling, equipment and materials daily in-line with supplier standards e.g. COSHH (Control of Substances Hazardous to Health) Safely move materials to the correct location using the relevant equipment
Environmental	Comply with environmental procedures and systems and contribute to the achievement of specific standards e.g. ISO 14001 or other relevant environmental standards and use the 4R's (Reduce, Re-use, Recycle, Recover) where possible
Production	 Demonstrate your ability to carry out your role effectively, efficiently and flexibly maintaining lean manufacturing principles to meet customer's demands e.g. JIT Obtain and follow the correct job instructions, specification details and specific transfer/handling procedures in accordance with time constraints and the roles and responsibilities identified for the logistic/material handling activity Move materials using the appropriate procedures, ensuring the materials are correct, safely loaded and secure. Check materials selected to be moved are in line with job requirements Return equipment to its correct location on completion of the activities and leave it in a safe and usable condition
Lean manufacturing operations	 Demonstrate your skill and knowledge following SOPs and build your versatility across a number of processes and process areas Select and use appropriate tools, equipment and materials to carry out the manufacturing operation
Quality control	 Demonstrate appropriate process documentation control Accurately complete check sheets, monitoring process and equipment data efficiently and legibly using the correct terminology required to meet the quality standard e.g. ISO 9002 Carry out quality checks on materials that are to be moved and deal with quality concerns and damage in line with their responsibility
Problem solving	 Demonstrate your ability to identify and resolve problems within the lean manufacturing environment, using effective problem solving tools and techniques Manage problems that may occur during the manufacturing process within the limits of your responsibility and escalate as appropriate



Skills (cont'd)

Area Learning aims and development

Continuous improvement	 Generate ideas and contribute to process improvement activities individually or as part of a team through fact finding and analysis to improve the safety, environment, quality, cost or production process Identify and eliminate the 7 wastes (defects, over production, transportation, waiting, inventory, motion and processing)
Communication	 Demonstrate communication skills which include oral, written, electronic (PC), information boards or visual displays to effectively share information
Work place organisation	 Maintain and monitor the work site efficiently and effectively at all times using the elements of sifting, sorting, sweeping, spick & span (5's) within the lean manufacturing environment

Behaviours

Area Learning aims and development

Team working	 Integrate within the team and support others Show respect for others, having regard for diversity and equality
Professionalism	 Be punctual, reliable and take responsibility for your own actions Demonstrate a positive and respectful attitude Listen to other people's opinions Be an open and honest communicator
Continuous development	 Seek opportunities to develop and adapt to different situations, environments or technologies Follow instructions and guidance and demonstrate attention to detail
Adaptability	 Respond positively to change in the working environment Work independently and effectively in challenging situations Maintain quality of work under pressure



Additional skills

As well as the core curriculum, you will develop a number of additional skills throughout the course of your apprenticeship:

NCFE Functional Skills

You will work on developing positivity and confidence in the use of maths and English skills in real world and employment-based situations.

Maths

Through Levels 1 and 2 Functional Skills qualifications you will demonstrate a sound grasp of maths skills at the appropriate level and the ability to apply mathematical thinking effectively to solve problems in the workplace and in other real-life situations.

English

Through Levels 1 and 2 Functional Skills qualifications, you will demonstrate the ability at an appropriate level to read, write, speak, listen and communicate in English, and to apply these skills effectively to a range of purposes in the workplace and in other real-life situations.

British values

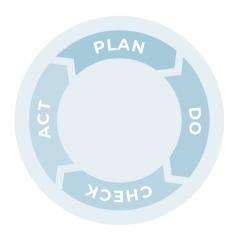
As part of your apprenticeship, we will discuss five key values and their impact and importance in the workplace. These will be democracy, the rule of law, individual liberty, mutual respect and tolerance of those of different faiths and beliefs.

Soft skills development

Personal Learning and Thinking Skills (PLTS) are generic skills that are essential to life, learning and work. Developing these will make a significant impact on your ability to contribute confidently both within and outside of your working environment. PLTS include independent enquiry, creative thinking, reflection, team working, self-management and effective participation.

PREVENT

PREVENT is part of the government's CONTEST strategy of which education is a fundamental part. The aim of the strategy is "to reduce the risk to the UK and its interests overseas from terrorism so that people can go about their lives freely and with confidence." CONTEST is split into four workstreams that are known within the counterterrorism community as the 'four Ps': Prevent, Pursue, Protect, and Prepare.



Plan

We take into consideration your skills at each stage of the process, planning the learning and follow-up activities.

Do

You undertake the learning and activities that have been planned.

Check

We check your learning using a combination of assignments, discussions and observations of workplace activities, ensuring that skills, knowledge and behaviours are embedded and being practised.

Act

If areas of further learning are identified, reinforcement training is planned in and provided.