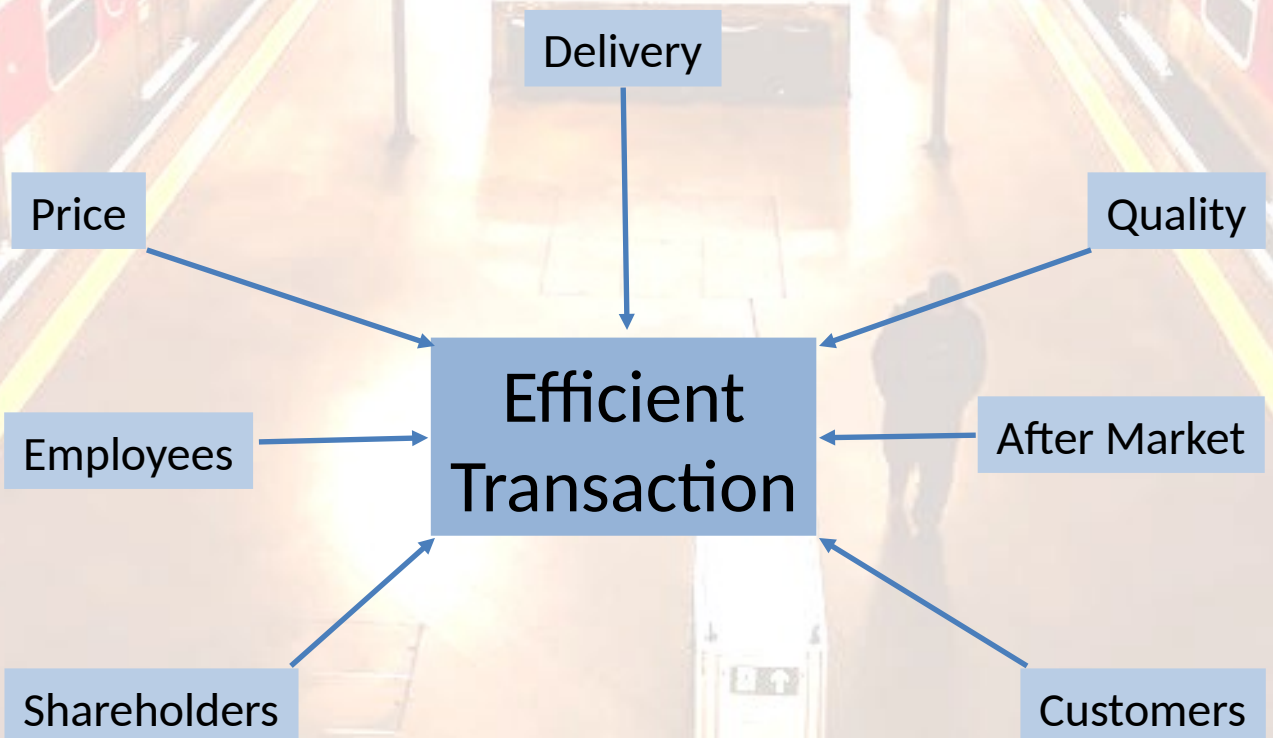


Productivity Apprenticeships

Level 2 : Lean Manufacturing
Operative Apprenticeship

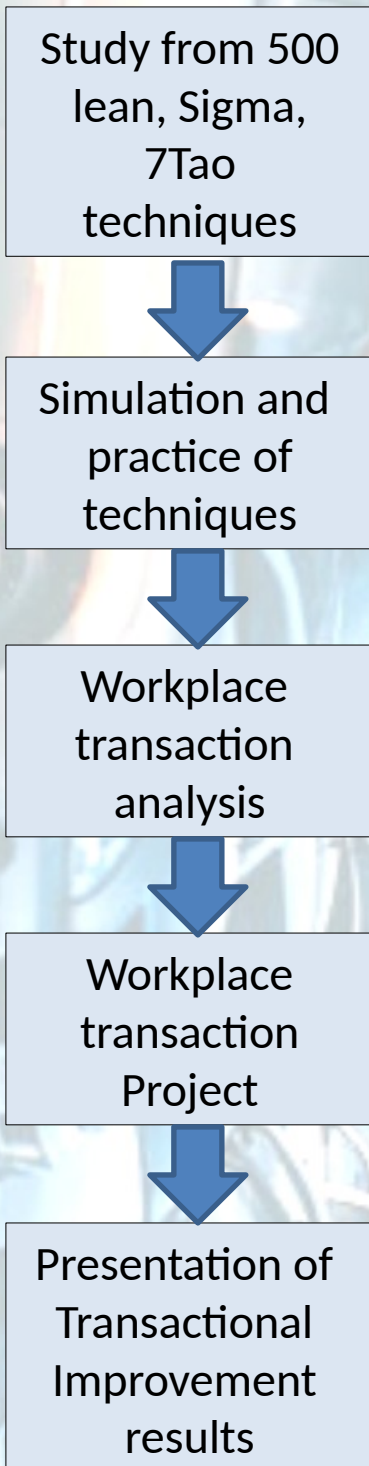
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Level 2: Lean Manufacturing Operative

- The Manufacturing Industry offers an exciting and varied career both in the UK & abroad providing a broad spectrum of opportunities for people to work in a technically advanced and innovative environment.
- Businesses within the sector range from small family run manufacturing operations to large multi-national companies driving the countries growth & wealth.
- The UK's Manufacturing Industry is highly regarded worldwide for its innovation and manufacturing excellence and requires a high degree of skill & knowledge across all levels of their organisations.
- A Lean Manufacturing Operative will be expected to carry out their work safely and meet the exacting quality standards demanded in a fast paced and efficient processing environment and develop into a multi-skilled operator through process ownership. A lean manufacturing operative can be required to carry out manufacturing activities on multiple products with different specifications consecutively e.g. automotive manufacturing – Multi models manufacturing results in the manufacturing of different models of vehicle with different specification variants within a high volume environment.
- They will work closely with stakeholders and will have clear reporting lines to ensure appropriate escalation e.g. teamleader, line leader, process leader, supervisor etc. should problems occur within the process.

Training Process



Apprentice can choose from over 500 techniques, some of which are displayed below:

Compliance: Team formation & leadership:

Self-development: Project management: Change management: Principles & methods: Six Sigma principles, Lean principles

Project selection & scope: Problem definition:

Process mapping & analysis: Data acquisition for analysis: Data stratification, sampling theory, data types, variation types and sources, data collection tools, operational definition and principles of measurement error

Basic statistics & measures: Control charts

Process capability & performance: Capability analysis - continuous data

Root cause analysis: Histograms

Experimentation: Active analysis versus one factor at a time, Plan Do Check Act

Identification & prioritisation: Brainstorming, selection criteria

Sustainability & control: Process

Lean tools: Apply techniques such as identification and removal of 8 wastes, 5S (Sort, Shine, Set, Standardise, Sustain), standard work, kaizen, visual displays and controls, error proofing, preventative maintenance

Process capability & performance: Analyse product/process performance using good quality data

Root cause analysis: Use cause and effect diagrams, technique of 5 whys and graphical analysis to understand and verify root causes

Identification & prioritisation: Identify and prioritise improvement solutions

Benchmarking: Recognise the value of sharing best practice

Sustainability & control: Create control and reaction plans with detection measures, identify opportunities to embed changes to leverage benefit to the business.

Learning from a bank of 256 defensive techniques involving lean, 6 Sigma and 7Tao

Once the student has selected the project they want to do and has learned from a bank of 256 techniques, they will need to test their knowledge.

Application of techniques learned in classroom to a modeling environment

We create a simulated environment of competition where students can apply their skills against other teams and see how good they are.

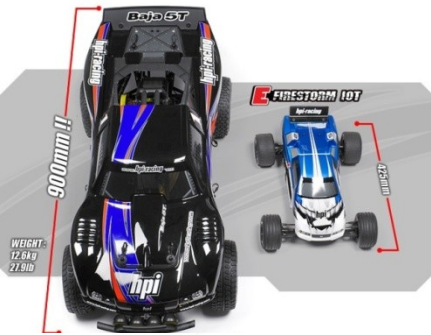
High pressure environment with excellent learning parameters of engineering models from across air sea and land.

The aim is to win against heavy transactional competition from other teams who will use every trick in the book to win.

The simulation is exciting, enjoyable, stimulating, testing and well appreciated throughout your organization.

Test the techniques in a simulation and apply to the workplace after simulated assessment

We will provide over 512 tools for the student to allow them to improve their jobs within their organization. The student will recognize what they need to achieve and how they want to achieve.



A hand is holding a Samsung smartphone with a purple case. The phone's screen displays a contact list. Overlaid on the screen is the text 'Contact us:'. Below this, the email address 'e: info@7tao.co.uk' and the website 'w: www.7tao.co.uk' are shown. At the bottom, it says 'Google: 7Tao'. The background is a blurred, warm-toned image of a person's face wearing sunglasses.

Contact us:

e: info@7tao.co.uk

w: www.7tao.co.uk

Google: 7Tao