LeanBenchmark

This Lean benchmark report has been prepared:



And relates to the following industry sector:

Manufacturing



Introduction

This Report is unique to your organisation; the content is driven by the answers you have provided and benchmarks your organisation's performance across the 8 Lean competencies:

- 1. Lean Leadership
- 2. Customer Focus
- 3. Empowerment
- 4. Communication
- 5. Core Processes
- 6. Plant and Equipment
- 7. Support Processes
- 8. Supply chain

The main purpose of this Lean benchmarking tool is to compare your organisations processes and Lean competencies with others in a similar industry or business sector.

Essentially, this is a "snap shot" of your Current Performance, compared with others. This resulting gap analysis clearly highlights the future Potential Performance and the most appropriate focus for improvement.

This report includes comparative data and provides a structured framework of recommendations to help you stay ahead of the competition and move your organisation to the next level.

Once you have reviewed this report you may wish to discuss this further with a Lean specialist, to arrange this please email advice@leanbenchmarkmark.org.

Key for your answers:

- 1 Not Found anywhere in this company
- 2 Found in some areas
- Commonly found, but not in the majority
- 4 Very typical, some exceptions
- 5 Found everywhere, no exceptions

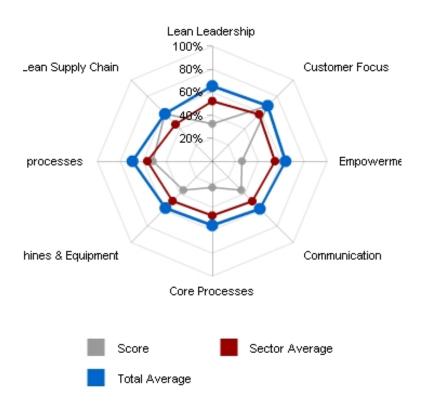


Overview

Categories	Sco	Score Sector Tot		Sector		tal
All Categories	45.5%	FAIR	51.5%	GOOD	45.6%	FAIR
Lean Leadership	35.7%	FAIR	52.2%	GOOD	48%	FAIR
Customer Focus	75%	GOOD	57.5%	GOOD	50.1%	GOOD
Empowerment	28.6%	FAIR	54.7%	GOOD	46.8%	FAIR
Communication	39.3%	FAIR	49.2%	FAIR	43%	FAIR
Core Processes	25%	POOR	47.3%	FAIR	41%	FAIR
Machines & Equipment	39.3%	FAIR	49.1%	FAIR	42.3%	FAIR
Support processes	57.1%	GOOD	56.5%	GOOD	51%	GOOD
Lean Supply Chain	64.3%	GOOD	45.2%	FAIR	42.7%	FAIR



Overview (cont)





Overview (cont)

Summary

The results show that your or a hisa in his in aste or some of the key elements of Lean. However, there is no room for complice ney; many of competitors are continually seeking ways to take performance to the next level.

Recommendations

- 1. Review the detailed recommendations made in the Leanbenchmark report. Share this report with key people within your organisation; agree how best to take this forward. Use the berichn ark cata to compare performance with others in a similar sector; identify the focus or laptove man and critical text steps which make best use of your time and resources.
- 2. See how others have successfully implemented Lean. Best Practice visits provide an excellent source or ideas motivale improvement tham and can help maintain the momentum of your Lean Jaurney.
- 3. An independent, impartial assessment of current Lean performance can help to refocus existing continuous in provement activities or can be used as a way to kick start a new change programme. In expension and I Lean specialist could carry out a Lean benchmark audit across your organisation and provide valuable feedback and advice. Even the most experienced Lean practitioners can always learn from others. Best Practice visits to Lean exempla is in other sec or may also generate new ideas for your team.



Lean Leadership

The organisation's vision, mission and goals are written down; the objectives are measurable and are understood at all levels	2	POOR
Staff can accurately describe the organisation's objectives and how their job contributes to the achievements of those objectives	2	POOR
There is a Lean strategy and the organisation's goals are linked to the implementation of Lean principles	2	POOR
Senior Managers are regularly seen on the shop floor discussing current issues and improvement programmes with production teams	4	GOOD
A non-blaming culture, fact-based, process driven atmosphere exists throughout the organisation	3	FAIR
The roles, responsibilities and accountabilities of team leaders, supervisors and managers are clearly set out and published	2	POOR
Promotions, pay and rewards are decided in a fair and structured way. All staff understand how their Team Leader or Manager rates their performance	2	POOR
Total	35.7%	FAIR



Lean Leadership - summary

Effective leadership is absolutely vital for any organisation seeking to implement Lean principles in a sustainable way. From the scores you have given it is clear that there is still much for you to do in this area before embarking on a Lean journey.

Recommendations

Get the Lean knowledge

Run a Lean aware bess wo keep or vour Mana, et ent eam and team leaders, it's important to draw rom or eone vino has had riac calle operance implementing Lean. Lean leaders must master Lean thinking to the point where it becomes second nature.

Create a future Lean /is....

The Managing Director and senior leadership team can work together to develop a clear future vision and measurable objectives for the business.

When this is communicate effectively, en ploye is inderstand the direction of the business and are more motivated to see how they can contribute in a positive way.

It is vital to get the whole leadership team on heard when developing an organisation's vision, strategy and objective to Asking an inpantial specialist to facilitate this work enables organisation's to tap into the entire knowledge and capabilities of a team.

Capitalise on your Resources and Capabilities

Identify the tangible, intanglish and human resources that exist within your business today. Consider different ways these resources can be used along side the capabilities that you have within the organismion to create an advantage over your competitors.

Develop a Balanced Score Card for your business

A new approach to strategic management was developed in the early 1990's by Drs. Robert Kaplan (Ha va d Business behool) and D iv a regiton. They named this system the Balanced Scorecard, this is a Management system (not only a measurement system) that enables organisations to clarify their vision and strategy and translate this into action.



It provides feedback around both the internal business processes and external outcomes in order to continuously improve strategic performance and results. When fully deployed, the backness scorecard raison is strategic planning from an academic exercise into the control of an enterprise. The balanced scorecard views the organisation from four perspectives. To develop metrics, collect data and analyse performance relative to each of these perspectives:

- 1. The Learning and Crov th Perspective
- 2. The Business Process Perspective (U.e Lech Princeles)
- 3. The Customer Perspective
- 4. The Financial Perspective

Deploy your Lean strate by

Strategy Deployment is a process that thes senior leadership into enterprise-wide business-improvement practices. Strategy Deployment originated with 'Hoshin Kanri' which was a core part or the readership contour plactices of TQM (Total Quality Managen ent. Us a man planning process to develop enterprise wide improvement plans, and then include this within a monthly review process.

Begin your Lean journey - the 6 step process

STEP 1

Identify a change agent

This must be a leader vhe will talle personal responsibility to the Lean transformation.

STEP 2

Get the Lean knowledge

As previously mentioned it is morent to draw from son eone who has had practical experience implementing Lean. The internal change agents must master Lean thinking to the point where it becomes second nature

STEP 3

Identify and communicate a crisis

Few if any businesses will take the necessary steps to adopt Lean thinking across the board unless they are facing a crisis.



STEP 4

Map the value streams

Begin with the current state must to show low material and mormation flows now, then draw a leaner future state of how they should flow the reseate an timed implementation plan.

STEP 5

Practice Kaizen



Begin as soon as possible with an important and visible activity such as a rapid improvement workshop or Kaizen Blitz.

STEP 6

Develop a Lean enterprise

Implement Lean techniques to part the cystom, not a sociated programs. As soon as Lean momentum of stab shed, the sociated processes.

Encourage Managers to be more visible on the shop floor (Gemba walks)

In Lean manufacturing, the idea of a Certifia valid (Gomba = workplace) is that the problems are visible and the best improvement ideas will come from going to the Gemba. The Gemba walk, much like MBWA (Management by Walking About) is an activity that takes M magament to the proof lines to look for waster and opportunities to practice Kaizen or practical shopf pointing over int



Customer Focus

The proportion of business with each customer (or demand rate for each pathway) is known at all levels in the organisation	4	GOOD
Daily quality and delivery performance to the end customers is known at all levels in the organisation	3	FAIR
Clients regularly visit the operational work areas within our organisation and can speak directly with any member of staff	5	WORLD CLASS
The key actions being taken to improve quality performance are documented and understood at all levels in the organisation	4	GOOD
There is an expectation and focus at all levels to achieve 100% delivery performance and meet customer demands	4	GOOD
Supplier performance is measured in terms of quality and delivery and is acceptable	4	GOOD
Suppliers are made aware of the end customer's specifications and delivery requirements. Where appropriate, contracts reflect a joint commitment to meet targets	4	GOOD
Total	75%	GOOD



Customer Focus - summary

From the answers your ave oven his clear that it clising or your customers is a priority within your organisation. There is no some for complacency however as there are still opportunities to improve in this area.

Recommendations Invite customers and part are

Encourage your Sales and Marketing teams to bring customers to visit your operation. This can be very rictival that (r shop or and operational employees. Engage with the local contraintry, invite one s to exterience the progress you are making on your Lean journey. Be proud of what you have achieved, but humble enough to seek feedback and suggestions from those you invite.

Customer facing second on the

Operational employees rarely have the oportunity to engage with customers. Look at ways in which operators can get a better uderstanding of customers needs and expectations. If you provide at ins a latify service of off sign warranty work you could consider sect nding operational and long longers to mese customer facing positions. Exposing your people to the reality of demanding customers will raise their awareness of the true challenges beyond the four walls of the site.

Mystery shoppers

Are your customers really satisfied? Mystery shopping is a wonderful Management tool which enables you to more fully understand how customers feel about their last experience with your organization. It have less a 'm' sery' shopper contacting your organisation, behaving and acting key norreal customer. Once this is completed a feedback report is produced which allows you to review your team's performance.

REPORT



Empowerment

The Standard Operating Procedures and Visual Works Instructions have been developed by the team leaders with input from other staff as necessary	2	POOR
A Skills Matrix is in place, this is used to encourage flexible working. Staff are trained, and can if needed work in different a role related to their main job function.	3	FAIR
Team authority and accountability is clearly defined, boundaries are set but team decisions are not superseded by senior management	2	POOR
Training is offered to all employees including coaching in the use of Lean techniques. Training records are kept up to date and training effectiveness is reviewed	2	POOR
Everyone in the organisation is encouraged to be actively involved in continuous improvement teams to identify and eliminate waste	3	FAIR
There are regular formal gatherings (Continuous Improvement meetings) where improvements are proposed, discussed and progressed	2	POOR
There is a budget for Lean. Authority for expenditure on process improvements is delegated to teams	1	POOR
Total	28.6%	FAIR



Empowerment - summary

The empowerment score sugress that your or penisation has some way to go before it can capitalise on the benefits of a fully empowered workforce.

Employee involvement and team empowerment enable people to make decisions about their work. This increases lovality, force sown are hip and er ables employees to make decisions about their obs. It also encourages amployees to take more ownership for their work and accept responsibility for their results.

Recommendations A I P L E

Develop a strong team ethos

Effective teams are created with a mission or purpose in mind. This purpose or mission should be expressed attacform a a writter team sharte. The idea of using teams to solve proble his and chieve results is based, in part, on a concept that the collective brainpower of a team far exceeds the ability of any Manager.

Team building

Running a team building for shop is an excellent way to bre to down any barriers that exist within a team. It develops mutual respect and understanding and encourages each team member to value contributions of their collections.

Top five tips for effective team building

- 1. Communicate goals clearly; employees look to Management for basic company goals. When those goals are no clear disattre meets will error as employees try to define goals themselves. By clearly killying out to take, eleryon a begins in the same place and understands where the business is going.
- 2. Define responsibilities: workplaces run best when everyone clearly understands their responsibilities. Provide cach employed with a distinct definition of his or her own responsibilities, both a dividually and as a relates to group projects. This eliminates confusion over who is accountable for what, and allows employees to relate without struggling over responsibilities.
- 3. Provide training; make sure that each nie nb ar or your staff is trained and equipped to complete the tasks at hand; divisions surface when one member is unable to perform necessary duties. Provide ongoing training, pair two employees to learn from each other Try or haure it is an equal to aching in latiouship, where both



employees are gaining new skills.

- 4. Empower; give decision making power to the people working on the project. Give them the authority necessary to get their obscore, but observe the process to make sure they're rising to the challenge. Trusted employees can make decisions without fearing consequences and good employees will value that trust and seek to make the best decisions.
- 5. Reward the team; provide rewards to the team. Whether it's an award, a pizza lunch, or some other treat, providing the whole team with an encouraging reward for hard work will build team spirit at d bit g yr tremple resolve is back in with renewed enthusiasm for their jobs.

Develop flexible multi skilled team members

Over specialisation of job cuties is the energy of productivity. In some situations, specialisation may be necessary, but also can have per what people can do.

A skill matrix is a simple visual tool, when correctly introduced it can be an effective way to get teams on board within much skilling program.

Step 1

Identify and log all key skills required

Step 2

Establish skills level (eac to am me nber

Step 3

Establish the mix of skills needed from a business perspective

Step 4

Analyse Gap between Stop 2 and Stop 3

Step 5

Discuss the skills gap issues openly with the team; explain the business case for change and benefits of training.

Step 6

Conduct one to one meetings and develop individual training and development plans

Step 7

Track progress on the skills matrix using an Lt formation

REPORT



Communication

External and internal business performance data is readily available to all employees and updated regularly	2	POOR
Team performance data is collected and displayed close to each process by those responsible for the activity	2	POOR
Information Display Boards are visible throughout. Information includes; Training, Safety, SOP's, Quality, Cost and Delivery measures	3	FAIR
All staff understand the displayed information in their area and are comfortable explaining it to visitors	2	POOR
There are periodic (two way) communication sessions carried out by senior management cascaded through the organisation	3	FAIR
Senior Managers receive regular feedback from individuals and teams regarding lean activities and improvements implemented	3	FAIR
A 360 degree feedback process is used by senior managers as part of their personal development and to improve inter-personal relationships	3	FAIR
Total	39.3%	FAIR



Communication - summary

The score for communication is low; has on a of the key foundations for effective communication are not jet in place across your organization.

Recommendations

Recognise the importance of effective communication

Poor communication is one of the most common criticisms employees have about the businesses they won't for a mployees or ipian that the care given poor instructions; they feel uninformed about what is nappening within the company and often feel that their views are unheard, unacknowledged, or even ignored.

Be consistent

Develop a structui a com nunica ions p an

When introducing a change program such as Lean, it is vital that there are two way 'open' communication channels.

Regular team briefings soor of the place of encourage discussion; Managers must not dictate the changes. These team briefings should be used to air feelings, concerns and ideas and will need to be supported by some ground rules.

Team briefings should take bloce throughout the organisation a lowing focus on different levels of is ues. To lovel' briefings should provide information on how the company is doing and the major challenges and changes in the business.

Weekly briefings he d betwer h Mid Le Mu at ers and Super visors will allow communication of insues af ecuning a percinic are as of the business. This should provide information upwards of key concerns or successes, and downwards of challenges and targets.

Daily meetings bety consultant surprisons and shop floors and focus on local issues affecting the performance measures for the area.

This cascade of communication will ensure that everyone is informed and, most importantly, that everyone has an object thity to be it volved in the issues and changes in the business



Team display boards

Positioned in each team at a directed of a runic ation beards bying together the most important information, relevant to each team in one designated area. Team Performance measures, updated daily or weekly along with an area to capture and progress improvement idea; are two vitalle errents of edisplayed. Over time, a comprehensive set of information can be displayed including:

- Top Level Business objectives
- Skills matrix
- Quality measures
- Productivity measures
- Customer delivery performance
- Trained first aiders photos
- Team photos
- Continuous Improvement plan
- Improvement suggestion.
- Team information

Further communication tips

Meetings are one of the most common, and useful forms of communication in any team. This is because a most on ad test a most any like osituation, and will fit both formal and informal occasions.

Some useful meeting tormals:

- One to Ones; normally he'd veekly, nese in ormal metings between the Team Leader and each individual team member are ideal for motivating people, catching up on progress, and ensuring that any problems are identified and dealt with promptly.
- Full team meetings; these are held regularly (perhaps monthly, or alternatively, every 1 or 2 weeks) so that all team members are updated on each area or task. Team meetings are updated on each area or task. Team meetings are updated on each area or task. Team meetings are updated on each area or task. Team meetings are updated on each area or task. Team meetings are updated on each area or task.
- Presentations; more formal affairs, presentations are often held to impart messages to key stakeholders such as the users, project sponsor, or shareholders to keep them informed and to hantain buy it.





Core Processes

The Value Stream is fully mapped, products and services are segregated into family streams	2	POOR
The Value Stream is regularly reviewed to identify improvements. Action plans are in place to reduce lead times and improve performance	1	POOR
Standard Operating Procedures exist for all core production / business process	2	POOR
Workplace organisation is clearly evident. Essential items are close to hand. All equipment, work stations and material holding areas are organised, clearly marked and free from debris. (5s approach)	2	POOR
Defective items are immediately detected. Remedial action is taken and the root cause is established using problem solving techniques. Poor quality never move to a downstream process.	3	FAIR
5S workplace organisation is sustained through regular audits. The 5S condition is evident across the organisation.	2	POOR
It is easy for a stranger to identify work content, material flow and current performance for any work area	2	POOR
Total	25%	POOR



Core Processes - summary

The score for core rocess say ges s that, in Lean te ms the organisation is fairly weak in this respect. 5S somen the bast place to start.

Recommendations

Apply 5S principles a gor usiy a ross te org in sacon

5S is the process used to create a workplace suitable for visual control and is the basic housekeeping discipline for Lean, quality and safety.

To achieve and sustain will organiser v or prace these 5 principles need to be fully implemented (many organisation's fail with 5S as mey stop after the second S)

Set In Order - Locale whilt is used in the pest place
Shine - Physical cleaning of the workplace
Standardise - simplify and single set the area
Sustain - everyone participates, carry our regular audits

Create visual works in tructions and SDF's

These are best created by neemploy residue of are corrying out the operational tasks. By giving the teams the power to document their standard operating procedures it ensure that all steps in the process are identified and taps in to the tacit knowledge that they have built up of many year

Visual works instructions are night on picture content and low on words and text so act as an excellent training tool where English is not a first language. An excellent tool also, to train new employees of temperary years if. Symbolis highlight the standard work content, important our my heak years reveal afety. PPE instructions.

Standard visual works instruction templates are available and training for this is normally very practical and can be based on specific live projects.



Machines & Equipment

Work area layouts have been implemented to support a team-working environment and enable continuous (ideally one-piece) flow	2	POOR
Travel distances have been analysed and reduced by moving equipment and workstations closer together. Workstations are adapted to improve Safety and Ergonomics	3	FAIR
Error-proofing devices and methods have been developed to eliminate reoccurring quality defects within each process	3	FAIR
Key processes are equipped with audible or visual signals. These are either machine or manually activated and assistance arrives promptly when a problem is encountered	2	POOR
There is a process for monitoring changeover / set up times with a view to identifying improvement opportunities using set up time reduction methodology	2	POOR
When new equipment is purchased or existing equipment replaced, operator training is carried out and SOP's are updated	3	FAIR
Preventative maintenance activity is clearly defined and communicated for both maintenance and production employees. Compliance to this is tracked and recorded over time	3	FAIR
Total	39.3%	FAIR



Machines and Equipment - summary

The answers you have provided for Anchinery and Equipment indicate a significant shortfall with this particular Lean competen e.

Recommendations

Reduce breakdown is an 1 m achine slown time

Introduce a Total Productive Maintenance programme (TPM)

TPM is and integral part of an 1 ear implorne tation programme where the process relies on machines to satisfy customer term and.

The aim of TPM is to strive for zero machine breakdowns, zero quality defects and improve productivity mouth mediate machine machine machine.

Create SOP's for M intenar ce of e quipment

Depending on the skill levels available, these can be created by the employees who are carrying out the operational tasks with the support of the local maintenance specialists or engineers.

Standard Operating Procedures (SOP's) for maintenance of machines and equipment need to include pictures to clearly showing the steps required to carry out the maintenance tas s. Again, it can be by noticial to use symbols on these instructions to highlight the most critical checks are specific quality/safety issues relating to the maintenance activity.

The most important rount is to bear be denoted the two preparate areas of maintenance required:

- The regular (daily or weekly) checks carried out by the operators
- The planned maintenance tasks where specialist maintenance engineers are required.

Prevent defects through mistake proofing (Pokayoke)

Repairing damaged quipmer and machine cown in e can prove to be very costly. As part of the TPM programment is youth a set uning time considering opportunities for implementing mistake proofing devices.



Examples of the of types of devices that are worth considering are as follows:

- 1. Guide pins, to ensure the parts can only be assembled in the correct way.
- 2. Light switches, that sense the presence or absence of a part.
- 3. Mistake proofing Jigs that detect defects immediately upstream.
- 4. Counters that verify that the correct number of parts or steps have been taken.
- 5. Checklists, tha remind operate s to lo certain a tions

Reduce set up ti nes Set up and Changeover Reduction (SMED)

This is one of the core learn pols. Set up reduction is generally considered as non value adding (from the polat of view of the postumer, furthermore it is the primary reason (or excuse) used to avoid reducing patch sizes. With long set up times the age old argument of 'Economical Batch Quantities' is used to avoid the move towards single piece in w.

The classical set up reduction methodology established by Stigio Shingo is a proven way to reduce set up time. Again, it is absolutely essential this is done with the full involvement of the operators to ensure the most appropriate improvements are considered and changes are at cores aft. It is no luced.

Note:

Internal activities = tasks that are done when the machine is stopped External activities = tasks that are done when the machine is running

Step 1

Identify and classify internal and external activities.

Step 2

Cut and reduce westerul activities such as novement fet thing tools, searching for paperwork waiting for instructions.

Step 3

Seek ways to ma limis e ternal activities (content ng in ernal to external)

Step 4

Use smart engine ring solutions is required important the remaining internal activities such as toggle clamps, quick role as once site.

Step 5

Seek ways to mir misc ex ernal a tivity ti ne.



Support processes

Management and /or partners and key stakeholders present staff with clear unambiguous product /service specifications	4	GOOD
Up stream teams deliver clear unambiguous requirements in order for the right quality to be delivered	4	GOOD
Management commit the organisation to achievable quality and performance targets based on a full understanding of available resources and capabilities	3	FAIR
Support services (IT, Engineering, Facilities Management, Estates) provide the necessary information to allow work to be started and completed to the scheduled plan	3	FAIR
HR provides a performance management framework and offer support with both individual and team development & training. Roles and responsibilities are defined for all staff	2	POOR
New (or amendments to existing) products or services are introduced on time and to budget, specifications are clear and fixed	4	GOOD
Lean Accounting practices are in place. Finance provides unambiguous, useful information. All products/services are fully costed and where appropriate have a bill of materials	3	FAIR
Total	57.1%	GOOD



Support Processes - summary

The score suggests that you have mide some cream key functions.

Recommendations

Pursue Lean HR practice

Use Visual Management to support staff with specific learning difficulties such as Dyslexia.

A little known fact is that a or nd 10% of any workforce has some form of learning difficulties such as Dyslexia. Furthermore it is likely that only 2 or 3% of these people are aware.

Lean, 5S, Visual man igencen and Vi ual works insitu tion, are all excellent tools for communicating operational information and instructions. Presenting information in this way will also help you meet your obligations under the DDA (Disability Discrimination Act)

Performance management

Be clear about how good performance is calculated, communicated and linked to incentives. Very often emp by es go I ome no know in (or caring) whether or not they accomplished their goals

Team development

Any organisation that is based of inc v dual be form in se alor e will struggle to get the team behaviours need of or lean subjects. Develop 'High Performance teams' invest time by running facilitated team building workshops focused around the Lean activities and objectives.

Roles and responsil mags

These must be absolutely clear, start with the Managers then continue with Team Leaders and operational personnel.

Communicate

A Lean communication plan must go beyond posters, emails and regular newsletters. Walking the shop floor, talking with the team and showing visible support and encouragement is absolutely at a. If you feel you are over



communicating then you probably have it about right.

Celebrate success

Lean requires a tremendous amount of hard work. Recognise key milestones in your Lean journey and keep teams motivated by simple 'coffee and cake' type celebrations.

Gemba Walks

Encourage management to be more visible on the shop floor (Gemba walks).

In Lean manufacturing, the icea of Gemba is not the problems are visible and the best improvement io as vil come from going to the 'Gomba. The gemba walk, much like MBWA or Management by Walking Around, is an activity that takes management to the front line at abole for waste and opertunities to practice gemba kaizen, or practical supplied improvement.

Lean Accounting

Lean Manufacturing and traditional accounting coefficit in second ways. These conflicts can often produce considerable difficulties. The rocus of this problem lie, largely, in the application of accounting and metrics.

Allocate overhead costs based on support activity for each product

The primary culprit is discorted product sost is overhood allocation and the primary effect is to undervalue many products and over-raise others.

Consider Activity Based Costing (ABC) for each Lean flow line

Activity Based Costing attempts to illentify the factors that traily drive overhead cost. It then allocates overhead costs with formulae that remote those "cost drivers". For example, in Purchasing, the true activity cost probably relates to the number of line items on the BOM for each product. In Engineering it might relate to the level of engineering resource mediates to support the product process.

Challenge the financial paradigm within your organisation:

- People other than account a is not do and retailed the reports that emanate from accounting systems, challenged halice to bring coarity to the preports.
- Often Finance is responsible for large, complex, wasteful accounting processes requiring huge amounts of non-value work. Involve the Finance team in the Lean improvement activity and en ourage the Jin ince to an ito hegin it 'Lean Office' improvement project may their processes and begin to en minate non value added



activity.

- Building inventory as an Asset's gery rally acre ted accounting principles, but in Lean it is a wasteful profit read of the lean benefits of a 'make to order' rather than 'make to stock'.

Create a lean 'W moom for Lean tour s

This can act as a focal point for the Lean teams. It is best located centrally to the operational activity so that it is visible to the whole workforce. It is a living display or the current stuation. Every or a can understand what problems exist and the plans to approve things.



Lean Supply Chain

The procurement strategy has been established considering business risk and relative spend	3	FAIR
A structured supplier selection process exists which supports the organisations drive towards reducing its carbon foot print	4	GOOD
Supplier performance is measured objectively in terms of quality, delivery, price and service	4	GOOD
Materials and stock items are managed effectively, shortages are rare and the stock reduction program results in an increase in stock turns each year	4	GOOD
All stock items have been ABC classified and are appropriately managed using Kanban, Water spiders, consignment stock, Vendor managed Inventory, JIT principles	3	FAIR
We regularly benchmark our internal capabilities and where appropriate reassess our make versus buy policy for non-core activities	3	FAIR
Outsourcing decisions are taken considering the Total Cost of Acquisition	4	GOOD
Total	64.3%	GOOD



Lean Supply chain - summary

You are making progress and you do may istrate some of the petter supply chain practices

Recommendation FPORT

Procurement Strategy and Supplier selection

When selecting suppliers, pricing and commercial criteria are often the primary focus. For strategical, important suppliers, it is necessary to access potential business risks and benchmark their capabilities in a mare structured way. This assessment should consider the following:

Potential risks

- Financially stability in the long torm
- Level of dependence/alternative supply options
- Ability to meet current and future capacity demands
- Reliability of logistics and devery sapability
- Geographic location

Commercial aspects

- Price competitiveness
- Quotation behavio rs
- Co operation and f exicility
- Green credentials and carbon tootprint impact
- Polices including CSR, Quality, Safety, Environmental

Business Resources and Cap Il ilitie

- Management capa vilities
- Design and technological capabilities
- Annual investment in R&D
- Annual investment in the initial

Supplier performance

Cost, Quality and Delivery are recognised as primary performance measures. Monitoring the progress of the important supplies the delivery is often forgotten.

Product Quality measure

Absence of quality direct. Commence to technical specifications and damage during shipping.



Delivery measure

On time, in full and complying with q is lity specifications

Supplier development measure

As well as driving day to dily perform ince effective supplied development strategies include a programme of continuous in proven entities ethorate or degree of improvement can be measured for example:

- Order cycle time regaction from order planet or eceipt or goods
- Reduction in parts per million defect.
- Improved on time delive y
- Price reduction
- Reduction in new product development time from concept to volume production

Supplier management cos

The cost of managing supplied is often not that sixible and can be lost. Taking a snap shot of time spent dealing with pricing or quality issues, rebates, inventory management and Invoice accuracy will highlight up the cost to your business.

ABC classification

This ensures suppliers are given the right focus based on pre determined quantitative parameters. Commonly used ABC parameters include Sales Value, Stock Value, Number on Stock lines and Stock holding costs. An analysis of stock based on selected criteria

By carrying out a Pareto analysis based on annual quantities it is possible to assign stock items to a given class and establish if elmost appropriate materials control and replenishment approach.

For example:

A = 75 to 85% (Just in time line sic \Rightarrow deliveries)

B = 85 to 98% (MFP/E?P ystem)

C = 98 to 100% (Kanban or twin pin system)

JIT

The closer a business can get to operating in a true just in time (JIT) situation, the more responsive it can be for it's customers. This also reduces the amount of capital tied up in excess stock. The basic premise of JIT is to have just the right amount of inventory available at your or duction line of feet tustomer demand, no more, no less.



Before working with suppliers to establish J T line's ided deliveries a number of other key factors must be addressed.

- A Lean, flow based production process needs to be in place
- JIT production planning and troopsi lenth e production process capability, changeover times, change pour patterns, and the true sad time for each product. Having a clear understanding of the demand patterns is essential.
- Flexible process
- Demand based ma eria's rull system.

Kanban

A Kanban is the clastic signating device for teman 1 trased pull systems and materials control.

The Kanban is calculated based on Daily demand, Lead time, Safety stock and Kanban size.

There are a number or resons w y (a ball's fail:

- There are inadequate visual controls in place to show how the Kanban is performing.
- There is no process to easy e that I anban cards and containers are being circulated correctly.
- There is no process in place circginarly will with it anbar system, so it falls down due to lost cards or napper, or at second evels.
- Lack of effective training.

Vendor Managed In Junory Consignment (tock)

VMI is a service whereby the supplier assumes responsibility for stocking and maintaining inventory levels of the supplied goods.

The vendor then issues a monthly or noolidate himsic for a mems used.

The stock is therefore in the possession of the customer, but is still owned by the supplier.



VMI can be an effective way to reduce stock outs in the supply chain.

There are three common issues with VMI that need to be addressed at the planning and development stages:

- Unexpected demand changes by the customer are not discussed earlier enough with the supplier
- The stoolier has a spike in its everall demand and is unable to replenish stock.
- Poor day to day communication at an operational level between customer and supplie.

Integrate E. Paystem; with Lan

ERP is a set of business processes, enabled by computer technology, designed to integrate all functional measurithin an enterprise to optimise the use of resources used to accomplicit asks V/here as Leau is a strategy that focuses on the elimination of all waste to minimise the amount of resources used to accomplish tasks.

Synchionica Kunhon and LR?

Not all suppliers have the foresight to plan ahead; furthermore they cannot easily predict significant fluctuations in demand.

As Kanban's as Junie've can get what we need then demand, it I important to schedule longuead thin litems in order to be able to have or get them through the supply chain on demand as needed.

Find more we ye to merce the benefits of ERP and lean to service customers effectively and efficiently.

Apply the 7 wastes and Lean principles to ERP and MRP systems

Over production (inly) there is vivated based on customer demand and MRP nieds.

Waiting - reduce the scheduling cycle, plan and schedule daily or by shift.

Invento y - e m nate sa ety s or k and make-to order.

Transport - Use com techniques.

Motion - minimise the scheduling effort, minimise or eliminate labour and production reporting.



Over processing eliminate he use of sales for casts by adopting JIT and Kanban.

Defects - maintain an accurate database through regular cleansing of BOMs and Roots

Outsourcing P P P

The need for out sourcing can be triggered for one of a number of reasons. Cost, Capacity constraints, Technology or skills needs are often key drivers.

Whatever the driver the right decision (an only be made if the Total Cost of Acquisition (TCA) is considered.

TCA can be calculated considering the following:

- Unit Cost
- Purchase currency and exchange rates
- Minimum order quantity
- Delivery costs and freight handling charges
- Storage costs
- Packaging cos
- Tooling and mainter an earlst and Jeon ciation
- Supplier management, trave cost, com nunication
- Potential supply disruption costs

In addition there he a number of time, cor, side rations.

- Range of products/service offered
- Company reputation/image
- Financial stability
- Geographic location/time difference
- Language compatibility
- Management and te im cap ibi ty and culture
- Willingness and about to use IT systems
- Environmental credentials such as ISO14001
- Quality credentials such as ISO9001

REPORT



About Leanbenchmark.org and KPS

Leanbenchmark is a service provided by KPS Ltd. Maintaining the quality and integrity of the Leanbenchmark database is fundamentally important to both us and our customers. Users can be confident that the comparative data can to the best of our knowledge relied upon. The data base is maintained and managed by highly experienced Lean specialists at KPS and is regularly checked ensuring the contact information provided is accurate.

Through our ongoing commitment to constantly improve and deliver exceptional quality and service, we have developed trusted partnerships with a number of long standing clients.

We work closely with a number of organisations in both the private and public sector including the Government sponsored Manufacturing Advisory Service and the NHS.

As a member of the British Quality Foundation established in 1993, KPS Ltd uphold the principles of the Foundation whose mission is to be a leader in helping organisations of all kinds to improve their performance and achieve sustainable excellence. The British Quality Foundation (BQF) is Europes largest corporate membership organisation promoting performance improvement and excellence.

We are constantly looking for ways to improve the quality of service to our customers. Should you have any feedback or suggestions as to how KPS can improve we would welcome your comments by email feedback@leanbenchmark.org or by telephone +44 (0) 1843 292681

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