

SC21 Implementation Case Study

SL Engineering Ltd



SC21 programme making the difference

Customer Comments:

"TPT's engagement has been effective because they have tailored the programme to the needs of our staff and modified it to "fit" with our culture. TPT methodology is very alive! Tom Townsend has a unique way of keeping the participants interested and engaged. Tom has delivered a professional programme based on his own vast experience and infectious enthusiasm"

Shaun Fox
Operations Manager

SL Engineering provides a full in-house solution for the manufacture of specialised rigid tube assemblies and precision machined components used in some of the most demanding applications in the civil and military aerospace, industrial gas turbine, marine, medical, oil and gas industries.

With over 40 years experience, modern facilities and continual investment in state of the art CNC plant and equipment employing CAD/CAM methods, SL Engineering have an internationally recognised reputation amongst their blue chip customer base for producing very competitively priced high quality products.



Benefits

- Delivery performance increased from 80% to 93%
- Turnover increase of 13.8%
- Reduction in man hour costs of 2.2%
- Catia V5 closed loop CAD/CAM system implementation reduces the operation time of drawing production by at least 75%, and allows data to be transferred directly to the CMM measuring machine or CNC bender
- Analysis and reorganisation of the pipe polishing process, allowing 2 out of 3 pipe polishing operations to be removed, reducing overall cycle time by 60%
- Analysis and reorganisation of the Bead Blasting process allowed reduction of overall cycle time by 47%.

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Shaun Fox –
Operations Manager

The feedback from our staff has been outstanding and has reinforced S.L Engineering’s commitment to development.

It continues to be a pleasure working with TPT consultancy and I look forward to their support in the future.

Results

- **SL Engineering achieved SC21 Bronze recognition during July 2011.**
- **Delivery maintained at average of 93.72%**
- **Quality maintained at average of 99.74%**

SL Engineering joined the MAA East Midlands SC21 Cluster Group during March 2010. Working with TPT the following were completed:

- Business Excellence diagnostic carried out April 2010
- Manufacturing Excellence diagnostic carried out May 2010
- CSIP completed July 2010
- CSIP Implemented October 2010
- SL Engineering achieved SC21 Bronze Recognition during July 2011.

Business Excellence Diagnostic

The Business Excellence Diagnostic was carried out in April 2010. The main opportunities for improvement were as follows:

- Develop the business plan and strategy further by updating the business plan objectives. Develop the business plan objectives at all business levels.
- Contact key customers with the view to addressing quality of relationship using RMR.
- Develop FactoryMaster further to support the development of KPIs that address as a minimum the A|D|S measures.
- Develop people processes further to link into the company policy and strategy objectives.
- Develop CAD/CAM systems in-line with present and future customer needs.

The Manufacturing Excellence Diagnostic was carried out in May 2010, the main opportunities for improvement were as follows:

- Define the scope and objectives of the lean programme within the company, along with the scope of the 5S programme.
- Develop the training process further.
- Develop plans to improve man hour performance utilising FactoryMaster to analyse the data.
- Quality department to develop a programme to train and mentor the teams in practical problem solving.

Visual Management

Example of visual management deployed at SL Engineering to communicate the policy and strategy and deployment plans:

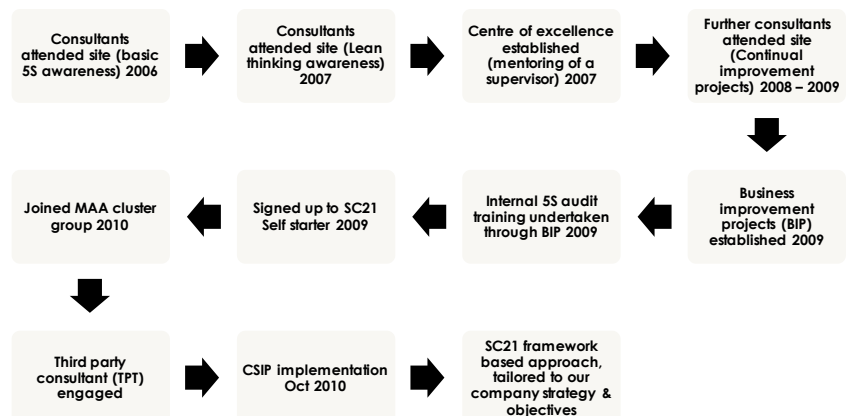


5S Programme

Example of shop floor after 5S activity had taken place:



Timeline



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