

SC21 Implementation Case Study

SL Engineering Ltd



SC21 Programme Continuing to Make the Difference

Customer Comments:

“Within the last 12 months we have achieved AS9100:2009 Rev C transition and SC21 award recognitions at both Bronze and Silver levels, working with TPT as our strategic and training partner. The expert support and enthusiasm of Tom and his team have proven invaluable in our continuous improvement success”

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

- The SC21 approach has provided a framework for sustainable improvement.
- Visual management improvements.
- Primary processes have been mapped and under pinned with KPI's.
- Delivery performance (OTD) increased from 80% to 97.8%.
- Right First Time (RFT) performance of 99.8%.
- Reduction in man hour costs of 2.2%.
- Capacity increase of 10%.
- New sales growth of 19.6% in the last year.
- SC21 Silver Recognition at Farnborough Airshow 2012

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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 Silver recognition during July 2012.**
- **Delivery maintained at average of 97.8%**
- **Quality maintained at average of 99.8%**

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SL Engineering joined the MAA East Midlands SC21 Cluster Group during March 2010 and were awarded the SC21 Bronze Award in July 2011. Continuing on from this success, SL Engineering have worked to a CSIP (Continuous Sustainable Improvement Plan) which is currently at revision 9, and were awarded the SC21 Silver Award in July 2012.

Business Excellence Diagnostic

The Business Excellence Diagnostic was carried out in May 2012. The Business Excellence score was 405.

Manufacturing Excellence Diagnostic

The Manufacturing Excellence Diagnostic was carried out in May 2012. The Manufacturing Excellence score was 412.

AG58744A Bending Improvement project

It was decided by members of the pipe shop, at the monthly 5S brainstorming event and in discussion with the Engineering Director, Steve Eggleton, that a split end die would offer a higher quality end product and reduce overall process time for these parts.

The following benefits were achieved:

- 45.45% time saved per unit
- 480 seconds saving per unit, 8 minutes per unit, 4 hrs. per EBQ
- 100% reduction in scrap rate

AG58744A final cut Improvement project

This exercise was to improve and review the cutting method of the job. The suggestion was to design and fabricate a fixture that would allow the pipe to be cut using a cut off saw, reducing the time it takes to cut and removing the need to file the end square.

The following benefits were achieved:

- 52.25% time saved per unit
- 580 seconds saving per unit, 4 hrs. 50 minutes per EBQ
- 100% reduction in scrap rate, previously 9 off per EBQ

