

Overview

The client is one of the leading train manufacturers, maintainers and train refurbishers in the world; employing 31,500 people worldwide with 23,800 in Europe.



The client was awarded the contract to refurbish the complete District Line 78 stock totalling 65 X 6 car units.

Problem

The client was encountering concerns delivering the required units on time to the customer, which was leading to high levels of liquated damages. On a required takt time of a 12 hour line move, the company was averaging a cycle time in excess of 28 hours to move the line.

"This is the best training program I have ever been exposed to"

Role: Methods Manager



Project 7 deployed a two phased approach to support the throughput. Firstly Project 7 trained leading methods engineers and production team leaders in 5 basic lean tools: 5s, Visualisation, 7 Wastes, Yamazumi and Kaizen. Following on from this class room training, Project 7 led the team through an on the job training program, which applied the classroom training in a real life situation.

Results

- 1. Line move time reduced from 28 hours to 11 hours, 61% reduction.
- 2. Headcount reduction of 14 operators through waste elimination. 10% Reduction
- 3. A total of £1,600,000 savings identified and implemented.
- 4. ROI of 9:1 agreed
- 5. Material cost reduction of £100,000 per unit set identified.
- 6. 55% increase in lean manufacturing tools understanding.

Lessons Learned

- 1. A better understanding of current state and data analysis would have prevented wasted time agreeing KPI improvements.
- 2. If class room training is not followed up with practical on the job training the knowledge retention is reduced by 30% within 6 weeks.
- 3. Early engagement of the shopfloor staff will result in smoother implementation and sustainability of the improvements identified.