

Automotive Industry Development Centre (Pty) Ltd Your partner in becoming globally competitive

Tirisano Cluster Programme Case Study

Lectrolite (Pty) Ltd



Company Summary

Lectrolite (Pty) Ltd



Company Name : Directors: Location : **Employees**: Annual Turnover : **Contact Details : Programme : Duration**: Champion :

Co-ordinator :



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Mr. John Gibson (Managing Director) Wankel Street, Isando 111 R170 Million for 2003 Mr. Anton Pretorius (Production Manager) Tel: 011 397 4070 Fax: 011 397 4326 Email : apretorius@lectrolite.ih.co.za **Tirisano Cluster Programme** September 2003 to May 2004 Mr. John Gibson (Managing Director) Mr. Anton Pretorius (Production Manager)





Company Background



- Subsidiary of Imperial Holdings Ltd
- Established in 1948
- Products : Number of different products = 2 Main products
 - Bougicord ignition cables assembled under license
 - NGK Spark Plugs assembled under license
- Customers :
- FORD Toyota Nissan VW
- Suppliers :
- E'Fil (France) NGK Japan
- Market Focus :
- Automotive Original Equipment
- Parts and Accessories
- Aftermarket
- Quality Systems :



- ISO9002; VDA 6.1 ; VDA 6.3 ; QS9000; ISO14001; ISOTS16949



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Results Summary at end Mar 04



- 131 Red Tags found of which 130 Eliminated
- 128 Wastes identified of which 84 eliminated
- Majority waste is Process
- 33 People Trained in 5C and 7 Wastes out of 111 Staff
- 80% improvement in Bougicord line throughput time (highest volume)
- 50% improvement in product output on RoCam line
- 25% reduction in floor space utilisation on Bougicord line











- Implement 5C and 7 Wastes on RoCam and Bougicord Line
- Improve layout and process flow of Bougicord and RoCam lines
- Implement measures of performance on internal performance
- Train all staff in 5C and 7 Wastes







Days spent with company



- ½ Day Awareness Session
- 2 Days Assessment
- ½ Day Pre-diagnostics (Management Team)
- 2 Day Diagnostics (Tirisano Team)
- 7 Days Workshop (Tirisano Teams)
- 6 Days Cluster Sessions
- Total Days = 18 Days from September 03







Company Road Map for next 6 Months



- 5C and 7 Waste Training for all Staff
- Training on Work Station Design
- Training of all Staff on Single Piece Flow
- Revise Internal Measures
- Time Studies on RoCam and Bougi Cord Line
- Revise Visual Management
- Stock Holding Reduction









Measures of Performance



4/29/2004

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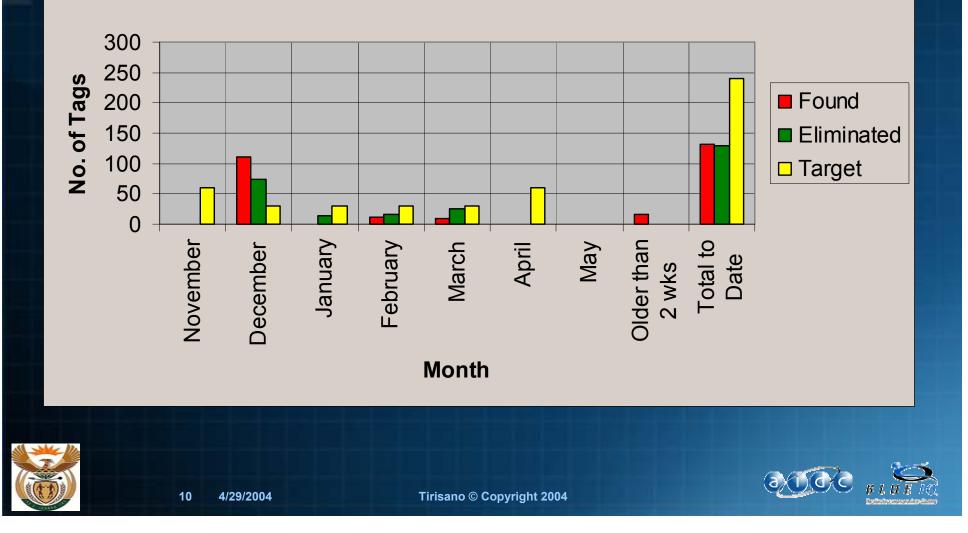




Red Tag Graph



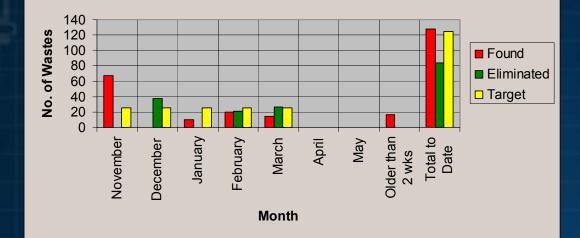
Red Tags at 26 March 04



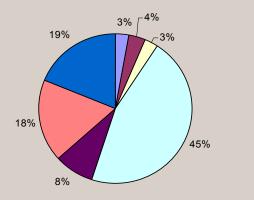


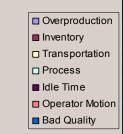
7 Wastes Graph





Wastes Breakdown





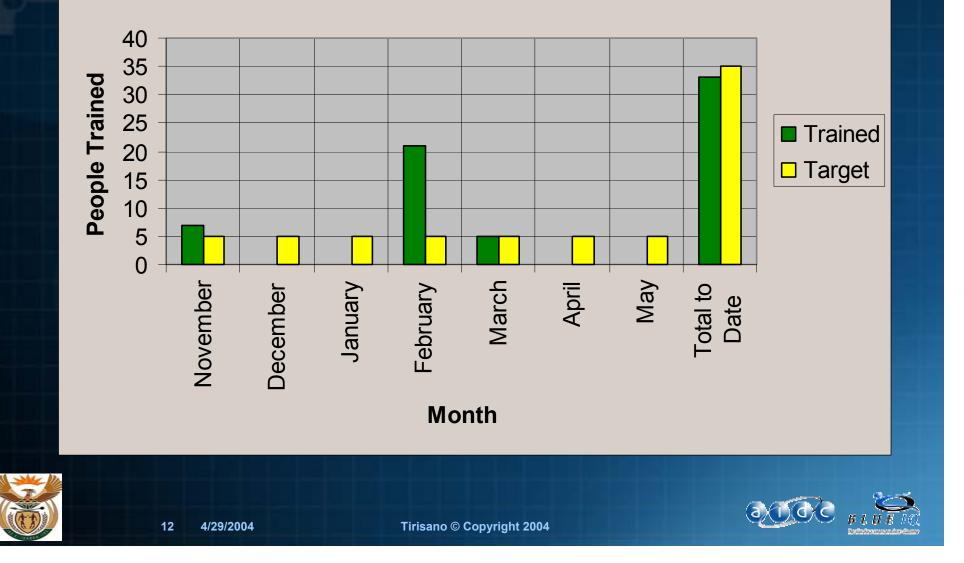


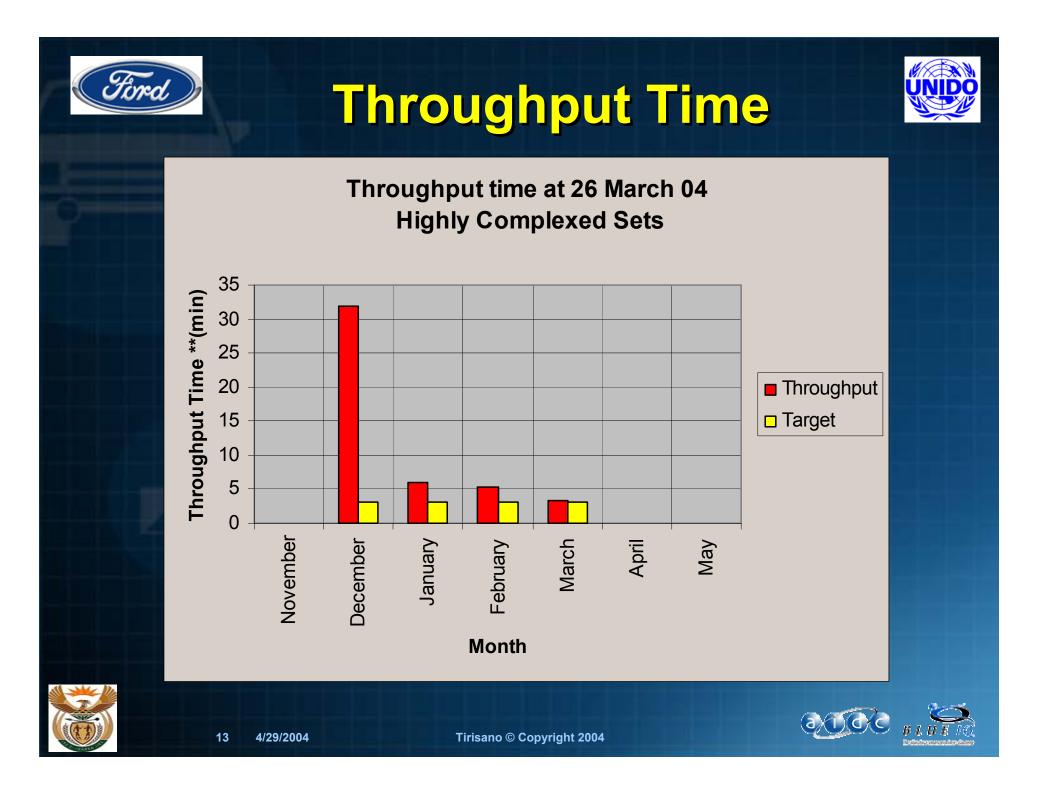


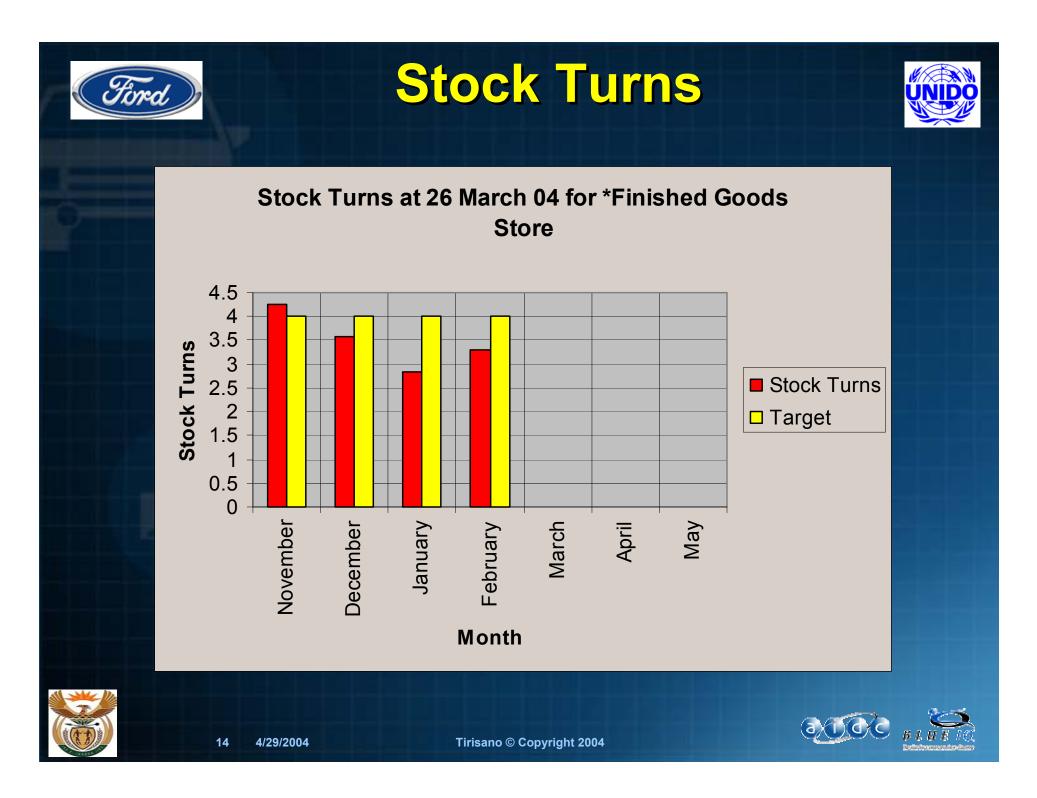


Number of People Trained

People Trained at 26 March 04









Top 5C Implementation





Before :

Operator motion

No fixed location for station and WIP

No demarcation for materials and product



After :

New workstation design using 5C methodology

Improved cycle time

Reduced operator fatigue through ergonomic work stations



15 4/29/2004

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Improved production output on RoCam Line

by 50%

Focused improvement activity on RoCam line to

- balance the workload,
- reduce process waste and
- improve quality
- Extensive training on
 - 5C, 7 Wastes and
 - 1-piece flow with RoCam line staff
- Improved line supervision







Conclusion



- Benefit to company
 - Improved production outputs and flexibility to production changes
 - Improved line layouts
 - Reduced work in progress
 - Improved process flow
 - Using measures of performance to focus improvement activities
 - Improved company sustainability
 - Adherence to training requirements and quality management system
 - Understanding the needs of the customer
- Cultural changes
 - Awareness training
 - Involvement from staff
 - Openness to change
 - Strong support from MD for current and future projects









Lessons Learned (Across the Cluster)

No retrenchments to be contractually agreed

- Future programmes to run for atleast 1 year per company as done in India which runs up to 3 years
- Training of all management personnel through joint sessions prior to programme commencement
- Enforcing preliminary measures prior to programme commencement
- Performance appraisal of participating companies throughout the programme
- Improve programme organisational structure and responsibilities
- Improve timing of monthly review meetings
- Additional involvement from STA personnel from the OEM







Potential Future Projects



- Stock holding reduction project
- Further improvements to RoCam line to increase production for new

demands

- Improved process changes from eccentric to hydropneumatic presses
- New factory layout
- Additional training modules



