CASE STUDY



Value Stream Transformation

1. Company Overview:

Andersen Windows was founded in 1903. It is headquartered in Bayport, Minnesota and is the largest window and door manufacturer in North America. The major brands of this company are: Andersen, Silverline, Renewal by Andersen, American Craftsman and MQ.

Products and Services:

- Windows, patio doors
- Window replacement
- · Architectural products

Key Figures:

- 11,000 employees
- 20 locations
- USD \$2.5 billion revenue

Lean Story:

- 2003: Value stream organization
- 2004: Model Line
- 2005: Material flow with supermarkets
- 2007: Andersen Management System
- Now: Lean Six Sigma

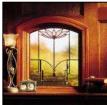












2. Original Situation:

The Andersen Woodwright® double-hung windows with easy tilt-release locks combine old-world character with modern technology. It has an appearance customers and architects love with features they need. Standard offering has the following options: 4 interior and 7 exterior finishes, grilles, screens, and patterned glass.

Window Manufacturing Line:

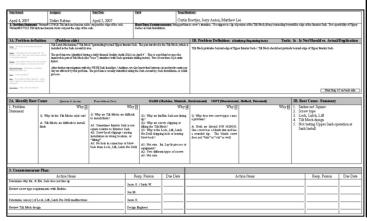
- High end architectural product
- Made to order
- · Custom sizes
- 30% annual growth
- Market with high seasonality

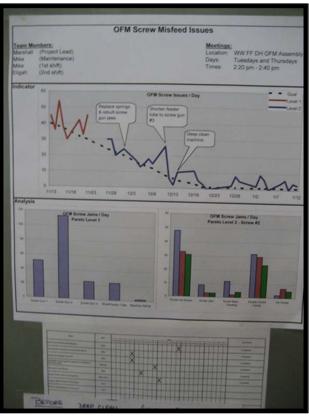




3. Lean Intervention:

- · KPI driven tier management
- · Cross functional support teams
- Daily continuous improvement
- · Quality circles
- Time based material delivery
- · Total productive maintenance
- Fast pace Kaizen workshops
- Leader standard work
- · 5 Why problem solving





4. Results and Learning:

Metrics	Baseline	Results	Improvement
Injuries / Year	8	1	87%
Incident Rate	4.5	2.1	54%
Internal Quality	86%	94%	37%
Initial Quality	1.2	0.7	44%
Backorders	4,407	416	91%
Hours / Unit A	1.9	1.6	15%
Hours / Unit B	2.4	1.8	24%



Learning:

- Structure
- Accountability
- · Cascade of responsibility
- Pace of change

