



Embracing Vendor Relationships To Improve Quality

Sharon Wilson
Industrial Engineering Technician
Red River Army Depot









Supporting the Soldier

Introduction

What is an Army Depot?

An Organization that

Manufactures Repairs Overhauls









Supporting the Soldier

Introduction

For Red River Army Depot, everything we do supports the overhaul of heavy and medium tactical vehicles and combat vehicles such as the Bradley Fighting Vehicle System and the Multiple Rocket Launcher System.









Introduction

In short, we need to quickly and safely





get these back to the soldier.







Supporting the Soldier

Background

RRAD Vision: Our best nothing less for the warfighter.

RRAD Daily Motto: We support the soldier, building it as if our lives depend on it, theirs do.









Supporting the Soldier

Background

Gilbreth's Concept "The one best way to do a job" It was evident we were not always doing this.











Background



Where did we start?

Ergonomic hazards everywhere Minimal ergonomic application

Affecting bottom line







Supporting the Soldier

Solutions

Partnerships

Defense Contractors
Industry Experts
Ergonomic Vendors
Army Experts









Supporting the Soldier

SolutionsPartnerships

Defense Contractors
Working on Similar Vehicles
Vested Interest in Each Others Success
Exchange of Information









Defense Contractors

Equipment

Storage

Processes







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ISO 9001:2000 & 14001:2004 Registered





Solutions

Partnerships

Industry Experts Advice Perspective Vendor Assistance





Excellence

Award





Solutions

Partnerships

Ergonomic Vendors Off-the-shelf products Faster than in-house engineering









Supporting the Soldier

Solutions

Partnerships

Army Experts
Ergonomics skill set
Familiar with Army standards and regulations
Accessible









Results

Partnerships

Army Experts









Results

Partnerships

Army Experts







Results

Partnerships The Most Important One

LEAN Office









Supporting the Soldier

LSS Results

Productivity / Cost

HMMWV: 70% Improvement HEMTT: 41% Improvement

OVERALL: 52% workload increase with only a 27% increase in personnel

Delivery

HMMWV: 3900% output increase. Flow time decreased by 75%.

HEMTT: 260% output increase. Flow time decreased by 67%.

SEE: 220% output increase. Flow time decreased by 51%.









LSS Results

Safety

Recordable accidents. Reduced by 88%

OSHA Rating: Reduced by 42%

Lost time accident rate: Reduced 88%

Quality

Improved Customer Service Rate - Increased from a positive 89.3% to 99.7%.









There is a gap between Lean Six Sigma (LSS) and Ergonomics











There is a gap between LSS and Ergonomics









There is a gap between LSS and Ergonomics









There is a gap between LSS and Ergonomics









There is a gap between LSS and Ergonomics...but it is closing



Employee comment: "Why are we doing the job like this?"







There is a gap between LSS and Ergonomics...but it is closing.









Supporting the Soldier

Conclusions

Embrace relationships

Determine gaps between LSS and Ergonomics

Involve your people every step of the way









QUESTIONS?

2005-2006 2006-2007 2007-2008 Shingo Prize For Excellence in Manufacturing

