



The Results

- \$675,000 future savings capacity
- 22,500 pounds solid waste reduction
- 9.4 tons CO₂ reduction



E3: ECONOMY - ENERGY - ENVIRONMENT
SUPPORTING MANUFACTURING LEADERSHIP THROUGH SUSTAINABILITY

DELFINGEN – Protected and Wired for Success with an E3 Assessment

Founded in 1954, DELFINGEN is an independent family-owned company that has been developing innovative protection solutions for the automotive industry for 60 years. Their wide range of products makes them a leading global manufacturer and the partner of choice for the protection of electrical wiring and fluid on-board networks.

DELFINGEN protection systems are recognized and used by automakers on all continents as well as by all major Tier-1 suppliers.

The Situation

DELFINGEN has a long history of environmental responsibility to preserve and protect the planet's resources. DELFINGEN continuously explores new ways to implement strong environmental commitments at each of its global facilities. Reducing their environmental footprint is a key corporate goal. DELFINGEN is currently developing an ISO 14000 environmental standard as part of its continuous improvement efforts.

The Solution

DELFINGEN was contacted by Hilario Gamez from the TMAC El Paso office to see if they would be interested in participating in an **E3** site assessment. **E3** is a technical assistance framework that works with communities, manufacturers, and manufacturing supply chains to adapt and thrive in today's green economy.

The Solution (cont)

E3 addresses *Economy, Energy* and the *Environment* by conducting technical assessments and offering practical, sustainable approaches that manufacturers can incorporate into their operations.

The **E3** team was formed by technical staff from New Mexico and Texas, both affiliates of the NIST/Manufacturing Extension Partnership. This group of trainers conducted a customized technical assessment to reduce costs, reduce energy consumption, minimize carbon footprints, prevent pollution, increase productivity, and drive innovation throughout the facility.

The **E3** training included classroom training followed by due diligence on the production floor. A cross-functional team including accounting, maintenance, managers and production staff identified various opportunities as they followed a product line through its flow in the facility.

Customer:
DELFINGEN US

Website:
www.delfingen.com

Industry:
Cable and Wire

NAICS:
331420

TMAC Services:
E3 Assessment

Who to contact:
TMAC Specialist
Hilario Gamez
915-747-6272

New Mexico MEP
Andrea Holling
505-681-1916

New Mexico State University
Chris Campbell
505-263-0646

TMAC Specialist
Kurt Middelkoop
817-307-0613

SUCCESS

TMAC

Value Added or Non-Value Added?

One of many Lean concepts the team was taught to see included how to observe an operator or machine on the production floor to determine if the task was a value added task or a non-value added task that should be eliminated, simplified or reduced. This concept was reinforced by having the team go out to the production floor to put to practice what they had learned in the classroom. The team viewed several operations and then each team member either gave a “thumbs up” (value added) or “hands across chest” (non-value added) to test their understanding.

This exercise gave the DELFINGEN team members a powerful tool that they could immediately use to identify opportunities for continuous improvement.



Value Added Task



Non-Value Added Task

“The best part was the simplicity and efficient way of explaining and training the Lean philosophy so our staff can really understand its purpose. It was really great to have another set of well-trained eyes come into our facility to help us identify these opportunities. We are looking forward to partnering with the E3 team in our continuous improvement efforts and goal to achieve the ISO 14000 Environmental Quality Management System certification.”

*~Olivier Mathieu
Plant Manager
DELFIN GEN US-Texas, Inc.*

Take the first step to a more successful future!
Contact TMAC today for your complimentary mini-assessment.
Call 1-800-625-4876 or visit www.TMACdfw.org for more information.