



SENTINEL

BY SHOWA

Personalized Hand & Arm Protection

How Sentinel by SHOWA Saved Wabtec Graham-White Thousands

Sentinel by SHOWA is designed to prevent work-related injuries, optimize cost performance, and ensure OSHA compliance.

January 2024



BACKGROUND

Wabtec Graham-White provides reliable transportation solutions, including heavy-duty pneumatic and electro-pneumatic valves and accessories, globally. The company has a long history in the drying of compressed air for locomotives and rail transit vehicles. As custom innovators and manufacturers, one of their top priorities is to develop new products safely and efficiently.

From deconstruction to assembly, Wabtec Graham-White undertook a deliberate initiative to align their hand and arm protection solutions with the highest standards of precision. During the initial meeting with Wabtec Graham-White's safety manager, SHOWA's industry professionals determined the company would gain significant advantages from our comprehensive on-site safety assessment.



OUR OBJECTIVES

1



Protect
Employees

2



Ensure OSHA
Compliance

3



Drive
Consolidation

4



Establish
Glove Controls

5



Eliminate
Waste

6



Provide
Sustainability

IMPLEMENTATION

SHOWA conducted a series of 12 assessments across various departments at Wabtec Graham-White. During the assessments, SHOWA's field experts determined the company was having significant issues with high dexterity and cut resistance, as well as other challenges with oily and greasy conditions.

To ensure critical hand safety, especially in deconstruction and rework, is the incorporation of high dexterity, balanced with cut resistance. This approach not only safeguards the company and its employees in the immediate term but also provides ongoing protection over the long term. The high dexterity allows for ease of manipulation as well as a reduction in the risk of hand fatigue and related incidents.

When addressing the assembly areas, SHOWA considered the handling of small and large hand tools as well as employees working with oily and wet components to provide the best glove recommendations.

To meet Sustainability goals, SHOWA recommended the adoption of our Eco Best Technology (EBT) disposable gloves. These gloves provide an impressive 82% biodegradation rate in 386 days within a certified municipal landfill. These latex-free gloves also contribute to the reduction of risks associated with hand fatigue and allergies.

“They came on site and took their time to walk through all departments. They spoke with operators to get a grasp of the work our team performs.”

- Wabtec Graham-White

CUSTOMIZED SAFETY PLAN

It took SHOWA's team just three weeks to conduct the safety assessments, develop a tailored safety plan, and provide Wabtec Graham-White with training and a customized glove board showcasing which glove to use for specific jobs in 12 different departments.

GLOVES IMPLEMENTED POST-ASSESSMENT

Department 1 - Assembly	Department 2-3 - Soldering Assembly Kitting	Department 4 - Molding	Department 5 - Tear Down
 <p>Glove: #B0500W Description: Protection against grease/oils - Dexterity Performance: Dexterity, Grip</p>	 <p>Glove: #6112PF-S-XXL EBT Description: Protection against harmful chemicals, oily/dirty applications Performance: Quality, Biodegradable, Chemical Protection</p>	 <p>Glove: #N8-18" Neoprene Description: Protection against chemicals Performance: Hand and forearm chemical protection</p>	 <p>Glove: #6112-S-XXL EBT Description: Chemical resistance for oily parts Performance: Biodegradable, Quality</p>
 <p>Glove: #6112PF-S-XXL EBT Description: Protection against grease/oils - EBT Performance: Biodegradable, Quality</p>		 <p>Glove: #8814 Description: Protection against intermediate heat Performance: Hand and forearm heat protection</p>	
Department 6 - Oil Cooler	Department 7-10 - Cooler Rework, Inner Cooler Line, Water Pump, Radiator	Department 11 - Anodize	Department 12 - Wiring
 <p>Glove: #4561 w/Kevlar Description: Cut resistance for low heat applications Performance: High CR4/Kevlar Palm</p>	 <p>Glove: #386 CR 3 Description: Cut resistance, Dexterity, Oily Conditions Performance: CR 3 with Nitrile Palm</p>	 <p>Glove: #6781R-10 Description: Chemical protection Performance: Heat resistance, Chemical protection</p>	 <p>Glove: #546-S-XXL Description: Protection from tiny, sharp objects Performance: Cut 3, Dexterity</p>
 <p>Glove: #6112-S-XXL EBT Description: Chemical resistance for greasy conditions Performance: Biodegradable, Quality</p>	 <p>Glove: #9700-S-XL 6 Mil EBT Description: Chemical protection, EBT Performance: 6 mil for greasy applications, Biodegradable, Quality</p>	 <p>Glove: #N8 Description: Chemical protection Performance: Hand and arm chemical protection</p>	 <p>Glove: #6112 PF-S-XXL EBT Description: Handling of oily products Performance: Biodegradable, Quality</p>

RESULTS

QUALITATIVE

Aligned Wabtec Graham-White with the standards of 1910.132 and OSHA 29CFR, demonstrating a commitment to identifying job hazards and providing appropriate PPE for employees.

Cultivated a stronger rapport with end users through senior level engagement and successfully navigating a complex distribution network.

Improved safety standards, providing enhanced protection for workers.

"They were able to provide a detailed glove safety assessment. That assessment provided new glove options that accurately mitigate the hazards the team faces."

- Wabtec Graham-White

QUANTITATIVE

SKUs Reduced:

4

Approximate Savings:

\$18,000

Number of Vendors Reduced:

2

"The new gloves have been essential in reducing the number of hand injuries, specifically lacerations, the team was susceptible to."

- Wabtec Graham-White

In the end, **Wabtec Graham-White** saw the true benefit of having the right gloves for the right jobs. Having too much of the wrong inventory is expensive and ineffective. Approaching the assessment strategically, having the skills to identify the right gloves for use in different departments, and providing support regarding proper glove usage gave our partner what they wanted and more – an effective hand protection solution that most effectively protects their team, while saving them time and money.

SHOWA continues to provide ongoing training and education regarding proper glove selection, sizing, usage, and disposal to **Wabtec Graham-White**.



“We are truly grateful for the assistance provided and highly recommend other sites utilize this glove assessment.”

– Wabtec Graham-White