

Pre-Launch Equipment Safety Assessments



Sandalwood
Engineering & Ergonomics
Work Smarter. Work Safer.

PRE-LAUNCH SAFETY REVIEWS & DOCUMENTATION ENABLE SAFE EQUIPMENT USE

Case Study

Client
OEM Vehicle Manufacturer

Objectives

- Conduct tooling reviews in accordance with client's Safety & Ergonomic standards for manually operated stations within Body, Paint and Final ASM
- Conduct material rack reviews in accordance with client's Safety & Ergonomic standards for manually operated stations within Body, Paint and Final ASM
- Documents and address risks with client personnel to mitigate employee risks

Project Description

Client's drive to improve equipment and material rack safety and ergonomics requires pre-launch equipment assessments and buyoffs. Sandalwood was commissioned to conduct tooling reviews, safety checklists, rack designs and risk assessments for both Safety and Ergonomics for the launch of a new product.



Fig 1. Customer Checklist

Results

- Completed tooling reviews and checklists for all major Body Shop tooling
- Completed rack reviews and physical verification for all new material handling end item racks
- Identified all safety hazards and developed methods to eliminate the hazards
- Devised plans to safe guard hazards that could not be totally eliminated
- Ensured that safety circuits were installed and properly functioning
- Ensured safety placards and warning labels were attached to the equipment and visible to facility personnel

About Sandalwood

Sandalwood is an engineering and ergonomics consulting firm. Since starting in 1989, Sandalwood has designed over 3,000 projects that have executed strategic

solutions for manufacturers. By providing their knowledge, research, technology, and resources, Sandalwood supports its clients from the executive level to the factory floor so you can...

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Step by Step Phase Installation Verification Process	
Phase I	Equipment is being installed, not energized. Safety Placards will be/are installed. Construction Safety Procedures must be followed.
Phase II	Equipment can be safely powered up. Safety placards are in place and lockout procedures are followed. Program debug is underway. Machinery motion may occur without warning. Equipment is not safe to be operated by the plant.
Phase III	Safety placards are in place and signed by Plant Champion and lockout procedures are followed. Prove out of functionality and adherence to specs occurs. Equipment is safe to be operated by the plant.
Phase IV	Laminated final safety placards are place and signed off by Plant Champion. Equipment can be run as normal.

Fig 2. Sample Equipment Verification System