

Operator Training

Description

The purpose of this course is to provide the machine operator with the skills necessary to identify problems with equipment before they become major problems. His or her mission is not to try to correct the problem, except for very minor areas, but to give the maintenance person an idea of what is happening. Thus reducing many minutes wasted by not knowing what to look for.

The primary objective of this course is to identify the overall problem area to the best of his/her

ability and communicate this to maintenance workers.

This course would be to enhance the operator's knowledge of machinery potential problems, and is not designed in any way to conflict with the job of the repair man. Its purpose is to assist in solving the problem by giving a good description of what the particular machine is, or is not doing. This course will also increase work place safety awareness.

Outline

- Safety Practices
 - Personal Safety
 - Jobsite Safety
 - Environmental Safety
 - Tool Safety
 - Operating Equipment Safety
- Developing People Skills
 - Communication
 - Responsibility
 - Supervision
- Improving Work Habits - Efficiency
- Identify Potential Equipment Problems
 - Belts, V-Belts, Timing Belts, etc. and Use
 - Sheaves - For Vee, Timing etc. and Use
 - Chains - Size, Type, Application and Use
 - Sprockets - Size, Type, Application and Use
 - Bearings - Friction, Anti-Friction and Use
 - Seals - Types and Uses
- Gearboxes - Types, Application, Use and Maintenance
- Pump - Different Uses, Types and Applications
- Pneumatics - Potential Problem Areas
- Hydraulics - Potential Problem Areas
- Lubrication Fundamentals - Oils and Greases
- Operation of Conveyor System
 - Belt Conveyors
 - Overhead Conveyors
 - Bulk Belt Conveyors
 - Roller Conveyors
- Electric Motors - Problem Indicators
- Fan Operation Problems
- Vibration and Alignment
- Safe Rigging Practices for the Operator
- Material Handling

Prerequisites

There are no prerequisites for this course except a willingness to learn.

Course Length

40 hours/ Up to 12 participants.

Performance Objectives

The primary objective of this course is to identify the overall problem area to the best of his/her ability and communicate this to maintenance workers. Secondary objectives are to develop the operators skills in problem identification, and increase work place safety in the following areas:

1. Belt and sheave problems - wear, tension, etc.
2. Chains and sprockets - wear and stretch.
3. Bearing problems - identifying
4. Seal problems and cause.
5. Gearboxes - break down, overload loss of efficiency.
6. Pump problems.
7. Pneumatic problems.
8. Hydraulic problems.
9. Problems with lubrication.
10. Conveyor usage problems.
11. Electric motor problems.
12. Fan operation, vibration and alignment.

Some additional objectives would be: Refresh safe work habits and safe work practices. To increase communication skills between the operator and the skilled trades people. Also to provide approved, safe rigging practices for the operation.