High-Performance Manufacturing

Production Technician
Get Plugged In!
MSSC Online

Category: Safety
  – Work Area Safety

• Individual Work:

• Time: 2:00

• Task:
  – Logon and complete the assigned LAB
“...the system of health and safety controls are intended to keep the workplace safe...”

Precautions: Know the language, tools, and practices to make your job safer

Ventilation: Exhaust fans, windows, air conditioning systems circulate and refresh air

Ergonomics: The science of designing and arranging things people use.

Lighting: Assure proper lighting for the area and tasks.

Keeping The Workplace Safe

Section 4.3
Apply It!
Pg. 112

• Category: Math & Science
  – The Impact of Ergonomics

• Process:
  Group of 3-5

• Time:  :10

• Task:
  – Read PS pg. 112
  – Complete “apply it!”
  – Classroom Discussion
"...the system of health and safety controls are intended to keep the workplace safe..."

Color Codes

Floors: Slips and Falls are the #1 cause for industrial accidents

Housekeeping: An ongoing activity that prevents accident

<table>
<thead>
<tr>
<th>Color</th>
<th>Meaning</th>
<th>Used to Identify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Danger, stop, or emerency</td>
<td>Fire equipment, exit signs, panic buttons on machinery, containers for flammable materials, and signs for hazardous areas</td>
</tr>
<tr>
<td>Orange</td>
<td>Warning</td>
<td>Hazardous equipment or parts of a machine (e.g., parts of a machine that can cut or crush or electrical boxes with start and stop buttons)</td>
</tr>
<tr>
<td>Yellow</td>
<td>Caution</td>
<td>Tripping or falling hazards (used with black diagonal stripes)</td>
</tr>
<tr>
<td>Blue</td>
<td>Information or caution</td>
<td>Safety signs, bulletin boards, out-of-order signs</td>
</tr>
<tr>
<td>White</td>
<td>Storage</td>
<td>Traffic flow (used alone or with black)</td>
</tr>
<tr>
<td>Green</td>
<td>Safety</td>
<td>First-aid stations, first-aid kits, and safety equipment (used with white)</td>
</tr>
<tr>
<td>Magenta or Black on Yellow</td>
<td>Radiation caution</td>
<td>Indicates areas where radiation is present</td>
</tr>
</tbody>
</table>

Keeping The Workplace Safe
Ladders, Scaffolds:

- Wear shoes with 1/2 in. heels
- Maintain and inspect lift equipment
- Use only stable ladders
- Use a fall protection system: guard rails, safety nets, body harness
- Use proper equipment for the job or application
Lift Baskets:

- Stand firmly on floor of basket
- Keep floor clean and clear
- Do not sit or climb on edge
- Never use planks or other device to get a better position
- Always wear a full-body harness and lanyard
Loading Docks:

(Areas where materials are loaded and unloaded)

- Flashing lights and audio signals may indicate a vehicle is approaching or backing up
- Wheel chocks are placed in front of back wheels of truck trailer to prevent the vehicle from moving away from the dock.
Loading Docks:

(Areas where materials are loaded and unloaded)

• A secure ramp connects a trailer or truck to the dock
• Trailer should be free of other workers when forklift operators are working inside
• Clean dock areas allow access and movement by workers and equipment
• Visibility is essential to safety
Safe Work Permits:

OSHA requires safe work permits for certain types of dangerous work

Confined Spaces

- Storage tanks, ventilation ducts, and pits
- Potentially dangerous atmosphere
- Potential drowning conditioning
- Potential trap or suffocate
- Any other recognized safety or health hazard

Keeping The Workplace Safe
Safe Work Permits:
OSHA requires safe work permits for certain types of dangerous work

Hot Work
- Any process that creates sparks or involves heat or open flames is considered hot work
- Assure work is done at least 35 feet away from flammable or combustible material

Radiation
- Working around some types requires permits

Keeping The Workplace Safe
“This workforce product was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.”

Project Product was created by North Central Missouri College Grant Staff licensed under a Creative Commons Attribution 4.0 International License.