High-Performance Manufacturing
Production Technician
Get Plugged In!
MSSC Online

Category: SAFETY
  – Personal Protective Equipment

• Individual Work:

• Time: 2:00

• Task:
  – Logon and complete the assigned LAB
Practicing Safety  Section 4.2

“...understand the risks and take steps to protect yourself...”

Eye Protection
Ear Protection
Head Protection
Hand & Arm Protection
Foot Protection
Lung Protection
Clothing materials fit style
Personal Cleanup

Fig. 4-12

Hard hat
Leather apron
Welding helmet
Welding gloves
Boots
Steel-toed boots
Gloves
• Category: Safety Practices
  – Selecting Personal Protective Equipment (PPE)

• Process:
  – Individual

• Time: :10

• Task:
  – Read application 4-6
  – Class Discussion”
Apply It!
Pg. 106

- Category: Problem Solving
  - Making Decisions and Judgments
- Process:
  - Group of 3-5
- Time: 30
- Task:
  - Read PS pg. 106
  - Complete “apply it!”
  - Classroom Discussion
“..a fire in a plant can quickly become a tragedy…”

Fire Prevention

- Ban cigarettes, lighters and match use near flammable or combustible materials
- Immediately report spills of flammable or combustible chemicals
- Assure proper ventilation to prevent vapor build up
- Store flammable liquids in an approved, labeled, and closed container
- Rags containing oil, grease, paint, or solvent should be kept in a closed/sealed container.

Practicing Fire Safety
“..a fire in a plant can quickly become a tragedy…”

Fire Prevention

• Utilize fire resistant cabinets to hold flammable containers
• Use caution using tools, that can spark, near flammables
• Assure proper grounding when transporting flammables to reduce chance for sparks
• Dispose of scrap and rubbish
• Store flammables away from heat producing equipment
• Flammable materials should not be stored near any material that could make a fire worse
"...a fire in a plant can quickly become a tragedy..."

## Fire Extinguishers

<table>
<thead>
<tr>
<th>Class of Fire</th>
<th>Type of Flammable Material</th>
<th>Type of Fire Extinguisher to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A</td>
<td>Wood, paper, cloth, plastic</td>
<td>Class A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class A:B</td>
</tr>
<tr>
<td>Class B</td>
<td>Grease, oil, chemicals</td>
<td>Class A:B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class A:B:C</td>
</tr>
<tr>
<td>Class C</td>
<td>Electrical cords, switches, wiring</td>
<td>Class A:C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class B:C</td>
</tr>
<tr>
<td>Class D</td>
<td>Combustible switches, wiring, metals, iron</td>
<td>Class D</td>
</tr>
<tr>
<td>Class K</td>
<td>Fires in cooking appliances involving combustible vegetable or animal oils and fats</td>
<td>Class K</td>
</tr>
</tbody>
</table>

---

**Practice Safety**

Pull the pin to unlock the fire extinguisher's lever.

Aim low, toward the base of the fire.

Squeeze the lever to discharge the extinguishing agent.

Sweep the hose back and forth across the fire.
...the amount of current not the level of voltage determines the danger of electrical shock...”

Electrical Safety

Practicing Safety: Electrical
**Category:** Safety Practices
- Practicing Electrical Safety

**Process:**
- Individual

**Time:** :05

**Task:**
- Read application
- Class Discussion"
  - Lockout - Tagout
• Category:  
  – Review
• Process:  
  – Individual
• Time:   :00
• Questions:  
  – When should a production worker wear cut resistant gloves?
  – Why should production workers wear clothing that fits properly?
  – Why might a production worker need to shower at work?
• Discuss the mini lab...
“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.