Figure 6-1  Safety glasses should be worn at all times when working on or around any vehicle or servicing any component.

Figure 6-2  Steel-toed shoes are a worthwhile investment to help prevent foot injury due to falling objects. Even these well-worn shoes can protect the feet of this service technician.
Figure 6-3 Protective gloves such as these vinyl gloves are available in several sizes. Select the size that allows the gloves to fit snugly. Vinyl gloves last a long time and often can be worn all day to keep your hands clean and any possible hazards in check.

Figure 6-4 One version of a bump cap is this padded plastic insert that is worn inside a regular cloth cap.

Figure 6-5 Remove all jewelry before performing service work on any vehicle.
TECH TIP

Professional Behavior in the Shop Is a Must
To be respected as a professional service technician and for safety, always behave in a professional manner. These behaviors include, but are not limited to the following:

• Show respect to other technicians and employees. For example, the shop owner or service manager may not always be right, but they are always the boss.
• Avoid horseplay or practical jokes.
• Act as if a customer is observing your behavior at all times because this is often the case.

Figure 6-6 Always connect an exhaust hose to the tailpipe of the engine of a vehicle to be run inside a building.

Figure 6-7 A magnetic tray is a helpful item to keep tools needed up where they can be easily reached without having to bend over, saving time and energy over the course of a long day in the shop.
Figure 6-8: An electric pusher used to push vehicles into or around the shop.

Figure 6-9: All oily shop cloths should be stored in a metal container equipped with a lid to help prevent spontaneous combustion.

SAFETY TIP: Shop Cloth Disposal

Always dispose of oily shop cloths in an enclosed container to prevent a fire. SEE FIGURE 6-9. Whenever oily cloths are thrown together on the floor or workbench, a chemical reaction can occur which can ignite the cloth even without an open flame. This process of ignition without an open flame is called spontaneous combustion.
TECH TIP: Pound with Something Softer

If you must pound on something, be sure to use a tool that is softer than what you are about to pound on to avoid damage. Examples are given in the following table.

<table>
<thead>
<tr>
<th>The Material Being Pounded</th>
<th>What to Pound With</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel or cast iron</td>
<td>Brass or aluminum hammer or punch</td>
</tr>
<tr>
<td>Aluminum</td>
<td>Plastic or rawhide mallet or plastic-covered dead-blow hammer</td>
</tr>
<tr>
<td>Plastic</td>
<td>Rawhide mallet or plastic dead-blow hammer</td>
</tr>
</tbody>
</table>

SAFETY TIP: Compressed Air Safety

Improper use of an air nozzle can cause blindness or deafness. Compressed air must be reduced to less than 30 PSI (206 kPa). SEE FIGURE 6-11. If an air nozzle is used to dry and clean parts, make sure the air stream is directed away from anyone else in the immediate area. Always use an OSHA-approved nozzle with side slits that limit the maximum pressure at the nozzle to 30 PSI. Coil and store air hoses when they are not in use.
Figure 6-11: The air pressure going to the nozzle should be reduced to 30 PSI or less.

Figure 6-12: A typical fire extinguisher designed to be used on type class A, B, or C fires.

Figure 6-13: A CO₂ fire extinguisher being used on a fire set in an open steel drum during a demonstration at a fire department training center.
Figure 6-14  A treated wool blanket is kept in this easy-to-open wall-mounted holder and should be placed in a centralized location in the shop.

Figure 6-15  A first aid box should be centrally located in the shop and kept stocked with the recommended supplies.

Figure 6-16  A typical eye wash station. Often a thorough flushing of the eyes with water is the best treatment in the event of eye contamination.
TECH TIP

Mark Off the Service Area
Some shops rope off the service bay area to help keep traffic and distractions to a minimum, which could prevent personal injury. See Figure 6–17.

Figure 6–17  This area has been blocked off to help keep visitors from the dangerous work area.