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<b>SMOHIT Safety Sense</b> Toolbox Talks for the Sheet Metal Industry	<h3 style="margin: 0;">Ground Fault Circuit Interrupters</h3> <ul style="list-style-type: none"> <li>Ground Fault Circuit Interrupters, or GFCIs, help to protect workers from electrical hazards. They are the most important electrical protection you can have on a jobsite</li> <li>GFCIs prevent many electrocutions by detecting a difference in the amount of current flowing between the source of electricity and the electrical tool in use. If there is even a slight difference detected, the GFCI shuts off the circuit and power to the tool.</li> <li>GFCIs will trip in a fraction of a second at currents well below those that are considered dangerous. For example, if a difference in current of 5 milliamps or more is detected, the GFCI trips the circuit in as little as 1/40<sup>th</sup> of a second.</li> <li>There are three types of GFCIs:               <ul style="list-style-type: none"> <li>A GFCI receptacle that can be used in place of a standard receptacle. It protects against ground faults whenever an electrical product is plugged into that receptacle. On a job site, other receptacles may be wired into the GFCI protected circuit.</li> <li>A portable GFCI plugs into a standard receptacle. Portable GFCIs provide protection only to the outlet the GFCI is plugged into, not the whole receptacle.</li> <li>A GFCI circuit breaker combines leakage current detection with the function of a circuit breaker. It is installed in the panel box, and it covers all wiring, outlets, lighting fixtures, etc. in the facility. It shuts off electricity in the event of a ground fault, but will also trip when a short circuit or overload occurs.</li> </ul> </li> <li>Use GFCIs in conjunction with an assured equipment-grounding program because GFCIs won't detect line-to-line faults.</li> <li>GFCIs are NOT a substitution for a fuse or circuit breaker, as these devices are still required to protect equipment and property from overloads or short circuits that can result in fires or other damages</li> </ul>	<h3 style="margin: 0;">Instructor Tips</h3> <ul style="list-style-type: none"> <li>Show examples of typical GFCIs used on the job.</li> <li>Demonstrate the proper way to test a GFCI.</li> <li>Emphasize that GFCIs should be inspected and tested regularly.</li> <li>Point out that workers should not automatically assume that circuits are GFCI protected.</li> </ul>	
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