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| **Topic:** Welding and Cutting | **Sub Topic:** Hazardous Materials |
| **Duration:** 1 Hour | **Resources:**  |
| **Equipment:*** Heavy Leather Gloves
* Heavy Leather Boots
* Welding Mask/Shield
* Respirator
* Safety glasses/goggles
 | **Videos:** [**Drum explodes during welding**](https://youtu.be/9DP5l9yYt-g)[**Welding explosion injures young worker**](https://youtu.be/TyYG47xlnvo)[**CSB Safety video-Dangers of propylene cylinders**](https://youtu.be/-_ZLQkn7X-k)  |
| **Topic Description:**This lecture covers welding safety and hazardous materials.  Special emphasis will be placed on working with hazardous materials.**Learning Outcomes:**Upon successful completion of this lecture, students will be able to:* Determine the proper manner to transport, move, place and store compressed gas cylinders.
* Understand the safety concerns and health hazards when welding and cutting on the job.
* Identify hazardous materials associated with welding and cutting.

**Activity:**Step 1         Students partner in groups of 2-4 to determine standards for welding safety and hazardous materials.Step 2    Students review case study on welding or hazardous materials accidents.Step 3         Student groups to associate a hazard with a precaution or identified standard.Step 4         Have students critique the proposed effectiveness of safety precautions identified in the case study. |