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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. | |