



Eye injuries:


Burns:


Fume inhalation:


Dizziness:


Skin irritation:


Exposure to hazardous chemicals:


Exposure to filler metals:


Exposure to welding gases:




3. Explain the terms *welding*, *electrode*, *slag*, and *oxidation*

Welding:


Electrode:


Slag:


Oxidation:


Describe the welding process, how heat is generated, what kind of filler metal is added (if any), and what protects the molten metal from the atmosphere.


4. Name the different mechanical and thermal cutting methods.






Training:


Experience:


Discuss this with your counselor, and explain why this profession might interest you.


b. Discuss the role of the American Welding Society in the welding profession.


When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from <http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf>. You can download a complete copy of the *Guide to Advancement* from <http://www.scouting.org/filestore/pdf/33088.pdf>.