New Mexico 4-H Oxyacetylene Cutting Project

Objective: To develop 4-Her’s skills with the cutting and welding of metal after demonstrating their safety skills and becoming familiar with the necessary equipment. Members will have completed this project after completing a name plate, a 4-H clover, or a set of four silhouettes. This project is intended to be the first step in the 4-H welding project curriculum.

Materials included with this project are…

- New Mexico Greentop Project Guide – 400.L-12 (N-04)
- The Basics of Oxyacetylene Cutting – Instruction Guide for Members and Leaders 100.L-12 (R-99)
- 4-H Project Record Sheet 300 A-7 (N-93)
- Silhouettes 3207

What do I do with my cutting project materials and information?

- Review the project handbook, record sheet, greentop, and cut out silhouettes to become familiar with the project before your first meeting with volunteer leader.
- Make certain you have 4-H insurance, working with metal is safe if done responsibly, but the insurance is a good idea.
- Be prepared to meet with an adult volunteer who will demonstrate the safe and proper use of equipment, and make sure every member is comfortable with each piece of equipment.
- The 4-H Welding projects are meant to be done in a group environment with adult supervision at all times, do not use any equipment unless a knowledgeable adult is present!
- Select and construct a nameplate, 4-H clover, or silhouettes.
- Exhibit project at county fair and/or achievement days. Winning entries are eligible to compete at regional or state fairs.
- Complete the record sheet at end of project work.

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Suggested Learning Activities

- Give a demonstration or illustrated talk on safety in the shop, or cutting workmanship.
- Attend field trips that explore the welding industry.
- Visit a local welding supply store.
- Participate with experienced welders, serving as their assistant.
- Attend as many welding club meetings as possible in your area.
- Exhibit name plate, 4-H clover, or silhouettes (set of four animals).

Where do I go for more information?

- County Extension Agents
- High School Welding or FFA Advisors
- Internet or Library
- Local Community Members involved in the Welding Industry

Other projects I can do that are related to the Oxyacetylene project.

- Citizenship – Develop community members knowledge of metal work by teaching them about your skills and project.
- Public Speaking – Learn to give a speech or illustrated talk about your project and experiences.
- Woodworking – Many times wood and metal work together to make the perfect project.
- Photography - Find those “good shots” for your record book.
- Electricity – If the cutting and welding projects interest you, then use your hands some more learning about electric power.
- Engines (Small) – Another hands on project for those members who like these types of 4-H curriculum.

Hanagan, February 9, 2004