

AREA: Agricultural Mechanics

UNIT: Arc Welding

JOB 1: Selecting a welder and accessories

SITUATION:

OBJECTIVES:

1. To develop an understanding of the important factors in selecting a welder.
2. To develop the ability to select a welder to fit the need.
3. To develop the ability in selecting welding accessories.

MOTIVATION:

1. Ask the class: How many have a welder at home?
If so, how did you decide on the one you have?

PREPARATION:

1. Prepare pass out sheets.
2. Assemble data on welders and accessories.
3. Lay out various accessories for discussion.

QUESTIONS FOR ANALYSIS:

1. What voltage is available on the farm?
2. What type of welding will take place on the farm?
3. Are you interested in doing welding projects on the farm as a passtime?
4. What welder service is available in your community?
5. What price range of welder would be the most economical for you?

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ANALYSIS:

<u>Decision</u>	<u>Factors</u>	<u>Information needed</u>
I. Selecting	a. Voltage available	1. 110 v. or 220 v. (?) 2. Open circuit voltage (?) 3. Line capacity (?)
	b. Type of welding	1. Small repairs (?) 2. Construction (?) 3. Interest in welding (?)
	c. Service for welder	1. Service available to you (?) 2. Case of obtaining accessories (?) 3. Popular brand names available in your area (?)
	d. Price	1. 180 amp with accessories \$ _____ 2. 250 amp with accessories \$ _____ 3. Gas portable with accessories \$ _____
II. Selecting Accessories	a. Type of work to be done.	1. Carbon-arc torch with carbons 2. Battery charging? 3. Soldering?