

WELDING

The Welding Certificate prepares students for a career as a welder in the areas of maintenance, construction, manufacturing, or to further their education toward a four-year degree program. Emphasizes the development of real, hands-on welding, layout, and fitting skills with extensive exposure to welding principles and practices. In addition to covering SMAW, GMAW, and GTAW welding processes, course work also examines how to operate the plasma arc cutting and oxy/fuel cutting processes, and exposes students to the areas of metallurgy and weld inspection procedures.

Welding - Certificate of Completion (<https://catalogs.nmsu.edu/alamogordo/degrees-certificates/welding/welding-cert/>)

Graduates of this program will:

1. Analyze cutting and welding processes to identify and apply appropriate safe work practices.
2. Communicate effectively within the industrial welding profession.
3. Recognize, set-up, and operate hand and power tools common to the welding and fabricating trades.
4. Interpret industrial 2-D and 3-D drawings and symbols.
5. Operate electrical and thermal cutting processes.
6. Set-up and perform welding operations with the appropriate process on various metals in different situations.
7. Analyze, in relation to specific welding processes, welding flaws, weld integrity, and appearance.
8. Develop and analyze weld test results using the American Welding Society's (AWS) standard test procedures.

Career & Technology Division

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