

# Agriculture Mechanics Instructor

**Program of Study:** Texas Agriculture, Food & Natural Resources (AFNR) – Agriculture Mechanics

**Location:** Era ISD

**Reports To:** Campus Principal / CTE Coordinator

**Contract:** 10–12 Month (as assigned)

## Position Summary

The Agriculture Mechanics Instructor provides rigorous, hands-on instruction aligned with the **Texas Agriculture, Food & Natural Resources (AFNR) Career Cluster** and the Agriculture Mechanics Program of Study. The instructor prepares students for postsecondary education, industry careers, and industry-based certifications—specifically **American Welding Society (AWS)** certification pathways—while maintaining the highest standards of shop safety, equipment maintenance, and risk management.

## Primary Responsibilities

### Instruction & Curriculum

- Deliver TEKS-aligned instruction in Agriculture Mechanics courses, including but not limited to:
  - Agricultural Structures Design & Fabrication
  - Agricultural Equipment Design & Fabrication
  - Agricultural Power Systems
  - Welding I & II (SMAW, GMAW, FCAW, GTAW as appropriate)
- Integrate theory and applied learning in:
  - Blueprint reading
  - Electrical and mechanical systems
  - Metal fabrication and tool usage
  - Oxy-fuel cutting and plasma cutting
- Prepare students for industry-based certifications, including:
  - **AWS Certified Welder** performance qualification
  - NCCER (if applicable)

### FFA & Student Leadership

- Serve as an advisor to the local FFA chapter.
- Support student participation in:
  - Agricultural Mechanics CDEs

- Welding competitions
- Livestock show project construction
- Leadership Development Events
- Supervise student project construction and ensure compliance with safety standards.

## **Required Qualifications**

- Valid Texas Teaching Certificate in Agriculture, Food & Natural Resources OR ability to obtain certification.
- Demonstrated experience in agricultural mechanics and welding.
- Knowledge of American Welding Society standards and welding codes.
- Strong understanding of OSHA regulations and shop safety practices.
- Ability to manage a laboratory-based instructional setting.