



Agriculture Mechanic Technician

Youth Apprenticeship

AGRICULTURE MECHANIC TECHNICIAN

Agriculture Mechanic Technician youth apprentices gain skills related to the maintenance and repair of agricultural equipment including use of tools, materials, engines, parts, diagnostic tools, welding, hydraulics, electronics, and documentation. Apprentices must adhere to industry safety and security standards.

Length of Apprenticeship: One or two years

OCCUPATIONAL COMPETENCIES

Agriculture Mechanic Technician youth apprentices can be completed as a one- or two-year program.

Level One (one year) = Required Occupational Competencies + 3 Additional Competencies

Level Two (two years) = Required Occupational Competencies + 10 Additional Competencies (*Including previously completed Level One Additional Competencies*)

Agriculture Mechanic Technician Competencies	
Required Occupational Competencies	Additional Competencies
1. Select correct hand tools and light duty power tools required for job	14. Look up parts
2. Operate hand tools, light duty power tools and stationary tools safely	15. Use specific diagnostic tools
3. Maintain a safe work environment	16. Cut metal using an oxyacetylene torch and plasma arc torch
4. Use fasteners correctly	17. Interpret hydraulic symbols and flow on a schematic drawing
5. Handle and store oils, grease, chemicals, cleaners, solvents, etc. according to the Material Safety Data Sheet (MSDS)	18. Maintain and repair basic hydraulic systems
6. Test and maintain engines	19. Inspect hydraulic components
7. Operate, maintain, and repair engines and equipment safely	20. Repair and maintain system components
8. Perform pre-inspection of equipment components	21. Interpret electrical symbols and wiring schematics
9. Setup equipment and machinery	22. Apply basic electrical theory
10. Retrieve diagnostic trouble codes	23. Repair failed components and/or repair of wiring
11. Check fluid levels and lubricate machinery and equipment	24. Inspect and diagnose electrical/electronic components
12. Maintain vehicle and machinery appearance and cleanliness prior to inspection delivery	25. Maintain and repair electrical/electronic components
13. Complete written documentation of work performed, and parts used	26. Troubleshoot and install instrumentation and data acquisition system
	27. Dismantle defective machines and equipment
	28. Reassemble machines and equipment
	29. Calibrate and monitor equipment

REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

Some of the related instruction courses can bridge into the following registered apprenticeship:

- Maintenance Mechanic

POST-SECONDARY PATHWAY OPPORTUNITIES

There are several post-secondary pathway opportunities in this area. The following is a partial list.

- Mechanical Maintenance Technical Diploma
- Agronomy Technician