

## PROGRAM OUTLINE

Central Arizona College  
8470 N. Overfield Road  
Coolidge, AZ 85228  
Phone: (520) 494-5206 Fax: (520) 494-5212

**Name of Program:** John Deere Construction & Forestry Equipment Technology AAS

**Program Description:**

Prepares students for employment as a diesel and heavy equipment technician at a John Deere dealership. A John Deere dealer must sponsor the student in order for student to attend class. Dealers are located in Arizona, Nevada and California.

**Campuses:** Signal Peak Campus - SPC

**Semester Hours:** 78

**Pre-requisites:** None

**Co-requisites:** None

**Recommended Proficiencies:** RDG100A or RDG100B

**List of Course Requirements:**

General Education Requirements  
Written Communication (3)  
Oral Communication (3)  
Arts and Humanities (3)  
Social and Behavioral Science (3)  
Biological or Physical Lab Science (4)  
Mathematics (3) MAT 101 or above or BUS101

Required Courses  
CFE101 John Deere Diesel Engines and Fuel Systems (12)

<p>CFE102 John Deere Hydraulic and Electrical/Electronics Systems (12)          CFE201 John Deere Chassis and Drives (10)          CFE202 John Deere Heavy Equipment Reconditioning and Operations (10)          CIS Computer Course or TEC129 Computers for Technicians (3)          DIE197 Career Advancement (3)          DIE222 Mobile Refrigeration (3)          DIE225 Preventive Maintenance (2)          WLD welding course (3)</p> <p>Other Degree Requirements          PE Activity (1) excluding varsity sports          RDG100A or RDG100B or equivalent reading assessment</p>	
<p><b>Learning Outcome Statements:</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate the ability to work safely according to OSHA.</li> <li>2. Demonstrate a knowledge and understanding of the fundamentals as they relate to diesel engines and fuel systems used in John Deere Construction and Forestry Equipment.</li> <li>3. Diagnose and repair malfunctions related to diesel engines and fuel systems used in John Deere Construction and Forestry Equipment.</li> <li>4. Demonstrate a knowledge and understanding of the fundamentals as they relate to power train and chassis systems used in John Deere Construction and Forestry Equipment.</li> <li>5. Diagnose and repair malfunctions related to power train and chassis systems used in John Deere Construction and Forestry Equipment.</li> </ol>	<p><b>Standards:</b></p> <ul style="list-style-type: none"> <li>- Students must pass a Web-based John Deere University Level 1 exam with a minimum of 80% accuracy.</li> <li>- Meet diagnostic and repair proficiencies as guided by current industry standards.</li> </ul>

<p>6. Demonstrate a knowledge and understanding of the fundamentals as they relate to hydraulic, electrical and electronic systems used in John Deere Construction and Forestry Equipment.</p> <p>7. Diagnose and repair malfunctions related to hydraulic, electrical and electronic systems used in John Deere Construction and Forestry Equipment.</p> <p>8. Operate John Deere Construction Equipment in accordance with the operators handbook.</p> <p>9. Recondition John Deere Construction and Forestry Equipment in accordance with the manufacturer's service and repair manual.</p>	
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Revised: 12/2006