

# Central Arizona College

8470 N. Overfield Road

Coolidge, AZ 85228

Phone: (520) 494-5444 Fax: (520) 494-5212

## John Deere TECH - A.A.S.

**Program  
Description for the  
Catalog:**

John Deere TECH, A.A.S. prepares students to diagnose mechanical malfunctions, service and repair the engine and powertrain systems of John Deere agricultural and consumer and commercial equipment. There will be emphasis on the use of John Deere technical service literature, specialized computer systems, and array of special engine tools. The program will also give students general knowledge and skills in areas of communication, humanities, and social and behavioral sciences in addition to trade skills.

**Effective Term:**

Fall 2008

**Campuses:**

Signal Peak Campus - SPC

**Semester Hours:**

76 - 80

**Prerequisites:**

None

**Corequisites:**

None

**Recommended  
Proficiencies:**

1. Approval of John Deere Dealership that will be sponsoring student.

2. RDG100A or RDG100B or equivalent on reading placement test.

**List of Course  
Requirements for  
the Catalog:**

Major Required Courses:

JDT110 JD TECH Engines (12)

JDT115 John Deere Computer Systems for John Deere Technicians (3)

JDT120 JD TECH Electrohydraulic (12)

JDT210 JD TECH Chassis and Drives (12)

Choose three of the following specializations:

JDT205 JD TECH Hay & Forage Equipment (3)

JDT215 JD TECH Global Positioning Systems (3)

JDT220 JD TECH CC & E (Consumer & Commercial Equipment) (3)

JDT225 JD TECH Harvesting Equipment (3)

Choose three of the following courses:

CIS122 or AGB124 (3) (also fulfills computer competency requirement)  
DIE225 Preventive Maintenance (2)  
DIE222 Mobile Refrigeration (3)  
JDT185 JD TECH Internship (3)  
WLD Welding Course (3)

General Education Requirements:

\*Written Communications (3)  
\*Oral Communications (3)  
\*Arts and Humanities (3)  
\*Social and Behavioral Science (3)  
\*Mathematics (3)  
Math numbered 101 or above or BUS 101  
\*Biological or Physical Lab Science (4)

Other Requirements:

Physical Education Activity (1)  
Computer Competency: AGB124 or CIS120 (3) if not taken in the courses listed above)

**Learning Outcome  
Statements for  
Program:**

1. Demonstrate the ability to work safely in shop conditions according to OSHA standards.
2. Exhibit a working knowledge and understanding of mechanical fundamentals as it relates to John Deere Agricultural and Consumer and Commercial Equipment.
3. Diagnose and repair malfunctions related to John Deere Equipment.
4. Demonstrate a working knowledge and understanding of fundamentals as it relates to electrical and power train systems of John Deere Equipment.
5. Follow diagnostic procedures in the technical service literature in order to correctly diagnose machine failures.
6. Demonstrate the skills to properly operate a variety of John Deere Agricultural and Consumer and Commercial Equipment.
7. Correctly install a variety of dealer Ag Management Solutions (AMS) system components and properly set up computer software relating to AMS products.

**Standards for  
Program:**

1. Apply OSHA standards to work safely at all times in the shop environment ([www.osha.gov](http://www.osha.gov)).
2. Successfully operate a variety of John Deere software packages including Service Advisor, Parts PM Pro and onboard diagnostics.
3. Correctly diagnose electrical, hydraulic, engine, and power train components malfunctions and failures using software, literature, and diagnostic tools as it relates to John Deere Agricultural and Consumer and Commercial Equipment.
4. Install, troubleshoot, and program Ag Management Solutions equipment.

**Revised:**

December 2007