



## South Central College Program Design

# DIP 3155 Agriculture Technician

### Program Information

**Instructional Level** Technical Diploma

**Career Cluster** Agriculture, Food & Natural Resources

### Description

The diploma is designed to prepare a learner for entry level career opportunities in the diesel, farm equipment, and industrial mechanics fields. Learners will diagnose and repair engines, fuel systems, power trains, electrical systems, hydraulics, air conditioning, and related machinery. With additional training and experience many technicians become shop foreman, service managers or open their own business. This diploma is designed for the learner who has prior training in the field or credit for life experience. A pretest or prior course work is required for admittance to this program.

### Program Admission Dates (Fall and/or Spring)

Fall and Spring

### Program Location (North Mankato and/or Faribault)

North Mankato

### Program Student Learning Outcomes

- 1 Demonstrate effective participation on an agribusiness team
- 2 Perform assembly, repair, operation, and adjustment of machinery and power units
- 3 Conduct trouble shooting of agricultural power units and machinery
- 4 Diagnose and repair tractor systems and equipment
- 5 Perform work using appropriate safety practices
- 6 Perform troubleshooting and diagnosis on an independent capstone project

### Program Configurations

#### Fall Start

#### Credits

Technical Course	36
Elective	1

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**Semester 1 - Fall**

Course #	Course Title	Credits	Function
AGME 2832	Hyd-Assist/Hydrostatic Transmissions	2	Technical Course
AGME 2841	Air Conditioning	1	Technical Course
AGME 2852	Introduction to Diesel	1	Technical Course
AGME 2882	Ag Tech Seminar	1	Technical Course
AGME 2945	Tractor/Equipment Repair I	3	Technical Course
AGME 2892	Hydraulic Theory and Diagnosis	4	Technical Course
Technical Elective	Select from courses in AGBS, AGECE, AGRI, ANSC, MEAG, PLSC, SGAG, SWPR, OTEC, or HLTH	1	Elective

**Semester 2 - Spring**

Course #	Course Title	Credits	Function
AGME 2853	Diesel Injection (Pumps)	3	Technical Course
AGME 2946	Tractor/Equipment Repair II	4	Technical Course
AGME 2947	Tractor/Equipment Diagnosis and Repair	4	Technical Course
AGME 2863	Adv Ag Electrical	2	Technical Course
OTEC 1001 -or- 1790	Computer Software for College -or- Keyboarding for College	2	Technical Course

**Summer Semester**

Course #	Course Title	Credits	Function
AGME 2940	Ag Service Tech Internship	9	Technical Course

**Program Course List**

Number	Title	Credits	Pre/Corequisites
AGME 2832	Hyd-Assist/Hydrostatic Transmissions	2	AGME 1821 AGME 1831
AGME 2841	Air Conditioning	1	None
AGME 2852	Introduction to Diesel	1	None
AGME 2853	Diesel Injection (Pumps)	3	None
AGME 2863	Adv Ag Electrical	2	Prerequisites: AGME861
AGME 2882	Ag Tech Seminar	1	None
AGME 2892	Hydraulic Theory and Diagnosis	4	None
AGME 2945	Tractor/Equipment Repair I	3	Enrolled in Agriculture Service Technician Program

<b>AGME 2946</b>	<b>Tractor/Equipment Repair II</b>	4	AGME2945
<b>AGME 2947</b>	<b>Tractor/Equipment Diagnosis and Repair</b>	4	AGME2863 AGME 2945