

AUTOMOTIVE MANUAL DRIVE TRAIN CERTIFICATE

Division: Career Technical Education

PROGRAM CODE: 2C40655

The **Automotive Manual Drive Train Certificate** is designed to provide the student with entry level employment skills needed in the area of automotive service and repair of manual transmissions, manual transaxles, clutch systems, drivelines, and differentials. A student can seek employment in new car dealerships, specialty repair shops, and franchise automotive repair facilities. This certificate requires a total of 20 units. A grade of C or better is required in each course taken.

| Code | Title | Units |
|-------------------------------------|--|-----------|
| Required Courses (20 units): | | |
| AUTO 130 F | Automotive Powertrains (formerly AUTO 060 F) | 5 |
| AUTO 140 F | Automotive Suspension and Wheel Alignment (formerly AUTO 083 F) | 8 |
| AUTO 160 F | Automotive Electrical and Electronic Systems (formerly AUTO 065 F) | 5 |
| AUTO 195 F | Automotive Specialty Practice (formerly AUTO 050 F) | 2 |
| Total Units | | 20 |

Program Level Student Learning Outcomes

OUTCOME 1: Identify and practice safe work habits when using tools and equipment in an automotive repair shop

OUTCOME 2: Inspect, identify, and repair vehicle malfunctions following manufacturer specifications and procedures.

OUTCOME 3: Using a vehicle repair order, explain and record vehicle inspection and repair procedures performed in compliance with automotive industry standards.

OUTCOME 4: Perform a wide array of preventative maintenance, service, and repair procedures related to manual transmissions, manual transaxles, clutch systems, drivelines, and differentials.

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