

# AUTOMOTIVE MANUAL DRIVE TRAIN SPECIALIST CERTIFICATE

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Division: Technology and Engineering

## Requirements

PROGRAM CODE: 2C40655

The **Automotive Manual Drive Train Specialist Certificate** (*formerly Automotive: Manual Drive Train Specialist Skills 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
<b>Required Courses (20 units):</b>		
AUTO 050 F	Automotive Specialty Practice	2
AUTO 060 F	Automotive Powertrains	5
AUTO 065 F	Automotive Electrical and Electronic Systems	5
AUTO 083 F	Brake and Suspension Systems Repair	8
<b>Total Units</b>		<b>20</b>

## Program 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.*