

RCTC PROGRAM PLAN

AUTOMOTIVE TECHNICIAN

Diploma

I. MINNESOTA TRANSFER CURRICULUM (MnTC)/

GENERAL EDUCATION REQUIREMENTS.....6 CREDITS

COMM 1000, Introduction to Workplace Communication, 3 cr

MATH 1015, Applied Technical Math, 3 cr

II. PROGRAM CORE REQUIREMENTS.....61 CREDITS

AMT 1720, Electrical Theory, 4 cr

AMT 1725, Electrical Lab, 4 cr

AMT 1730, Brakes Theory, 4 cr

AMT 1735, Brakes Lab, 5 cr

AMT 1810, Engine Repair Theory, 3 cr

AMT 1815, Engine Repair Lab, 7 cr

AMT 1820, Alignment and Suspension Theory, 2 cr

AMT 1825, Alignment and Suspension Lab, 3 cr

AMT 1900, Welding, 2 cr

AMT 2740, Drive Train Theory, 3 cr

AMT 2742, Manual Drive Train Lab, 4 cr

AMT 2744, Automatic Transmission/Transaxle Lab, 4 cr

AMT 2650, Automotive Science, 2 cr

AMT 2750, Engine Performance Theory, 4 cr

AMT 2752, Engine Performance Lab, 7 cr

AMT 2770, Heating and Air Conditioning, 3 cr

TOTAL67 CREDITS

PROGRAM OUTCOMES:

Upon completion of the Automotive Technician program at RCTC, students will achieve the following outcomes:

- Diagnose and repair engines.
- Diagnose, maintain and repair automatic transmission and transaxle.
- Diagnose and repair manual drive train and axles.
- Diagnose and repair suspension and steering.
- Diagnose and repair brake systems.
- Diagnose and repair electrical electronic systems.
- Diagnose and repair heating, ventilation, and air conditioning systems.
- Diagnose and repair engine performance.

NOTE: The program's goal is to prepare students for the Automotive Service Excellence (ASE) certification test.

Revised: 05/01/2023

Implementation: Fall 2023