TRANSPORTATION SERVICES -CORE (TSTC)

Courses

TSTC 100 Introduction to Transportation Services 2 Credits
Introduction to procedures, tool usage, basic shop safety, basic employment skills, job documentation, and equipment usage.
Terms Typically Offered: Fall, Spring.
Fees: Yes.

TSTC 101 Vehicle Service and Inspection 3 Credits
Introduction to vehicle systems, maintenance, inspection, internal combustion engine theory, systems diagnosis, fundamentals, and evaluation. Service of the vehicle systems with emphasis on inspection and observation.
Terms Typically Offered: Fall, Spring.
Fees: Yes.

TSTC 130 Electrical I 2 Credits
Introduction to electrical theory, circuits, components, testing, and use of test equipment.
Prerequisites: TSTC 100 and TSTC 101.
Terms Typically Offered: Fall.
Fees: Yes.

TSTC 160 Electrical II 2 Credits
Study of electronic control systems applied to today's modern vehicles. Emphasis on sensors, actuators, and diagnostic techniques.
Prerequisites: TSTC 100, TSTC 101, and TSTC 130 (TSTC 130 may be taken concurrently).
Terms Typically Offered: Spring.
Fees: Yes.

TSTC 170 Chassis Fundamentals 2 Credits
Introduction to front and rear suspension systems, including: steering front end geometry, maintenance, light repair, and component nomenclature.
Prerequisites: TSTC 100 and TSTC 101 (may be taken concurrently).
Terms Typically Offered: Fall.
Fees: Yes.

TSTC 171 Brakes I 2 Credits
Theory, components, general repair practices, and diagnosis of current brake systems.
Prerequisites: TSTC 100 and TSTC 101 (may be taken concurrently).
Terms Typically Offered: Fall.
Fees: Yes.

TSTC 195 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.