TRANSPORTATION SERVICES-AUTOMOTIVE (TSTA)

Courses

TSTA 245 Manual Drive Trains 4 Credits
Standard repair practices for drive train components to include: clutch, transmission, transaxle, drive axle, driveline, c-v, and R & R procedures.
Prerequisites: TSTC 100 and TSTC 101.
Terms Typically Offered: Fall.
Fees: Yes.

TSTA 247 Automatic Drive Train Service 4 Credits
Standard repair practices for automatic drive trains to include: diagnosis, testing, R & R, and servicing of transaxles/rear wheel drive transmissions.
Prerequisites: TSTC 100 and TSTC 101.
Terms Typically Offered: Fall.
Fees: Yes.

TSTA 265 Engine Control Services 3 Credits
Repair and diagnosis of engine control systems, with an emphasis on scan tool diagnosis and live, hands-on repair of systems.
Prerequisites: TSTC 100, TSTC 101, and TSTC 130.
Terms Typically Offered: Fall.
Fees: Yes.

TSTA 267 Body Controls 3 Credits
Theory, repair, and diagnosis of body accessories including air bags, electronic monitors, power seats, windows, and wipers.
Prerequisites: TSTC 100, TSTC 101, and TSTC 130.
Terms Typically Offered: Spring.
Fees: Yes.

TSTA 275 Alignment and Suspension Service 3 Credits
Repair of suspension systems to include alignments: (2 and 4 wheels), R&R suspension components, and pre-alignment inspections.
Prerequisites: TSTC 100, TSTC 101, and TSTC 170.
Terms Typically Offered: Fall.
Fees: Yes.

TSTA 286 Hybrid and Alternative Fueled Vehicles 2 Credits
Introduction to hybrid and alternative fueled vehicle technology in the transportation industry. Topics include power and transmission designs, batteries, plug-in technology, control systems, safety, associated systems, diagnostics, and repair of modern hybrid/alternative fueled vehicles.
Prerequisites: TSTC 100, TSTC 101, and TSTC 130.
Terms Typically Offered: Spring.
Fees: Yes.

TSTA 287 Engine Performance and Emissions 3 Credits
Diagnosis and repair of engine performance and emissions-related failures. Emphasis on strategy based diagnostics through the use of exhaust gas analysis.
Prerequisites: TSTC 100, TSTC 101, TSTC 130, and TSTA 265.
Terms Typically Offered: Spring.
Fees: Yes.