

TRANSPORTATION SERVICES- GENERAL (TSTG)

TSTG 120 Industrial Safety Practices2 Credits

Overview of current OSHA and EPA general industry regulations with an emphasis on hazardous materials, right-to-know, record keeping, and worker role in safety.

TSTG 135 Starting and Charging Systems2 Credits

Electrical component repair to include: alternators, starters, wiring, and other electrical components.

Prerequisites: TSTC 100, TSTC 101, TSTC 130, and TSTC 160.

TSTG 150 Fluid Power3 Credits

Principles of hydraulics and pneumatic system including the construction, application, repair, maintenance and troubleshooting of components and systems.

TSTG 175 Brakes II2 Credits

Repair of brake systems to include: shoes, pads, cylinder reconditioning, machining rotors and drums, diagnosis, bleeding, R & R components, parking brakes and anti-lock systems.

TSTG 195 Climate Control4 Credits

Repair, diagnosis, R & R of components, charging, recycling and testing of heating and air conditioning systems of over the road vehicles. Theory of operation, nomenclature, identification, safety and environmental impact factors of air conditioning. Also covers heating and ventilation systems.

TSTG 215 Engine Reconditioning5 Credits

Industry standard rebuild practices for engines. Removal of engine, complete disassembly, reassembly, and running of engine is covered. Tune-up and fuel system adjustments are covered.

Prerequisites: TSTC 100 and TSTC 101.

Terms Typically Offered: Fall.

TSTG 220 Workplace Skills3 Credits

Employment skills encompassing leadership, goal setting, personal traits, conflict resolution, quality, time management, life-long learning, written and oral communication, and customer relations.

TSTG 240 Job Shop4 Credits

Application of workplace skills in a controlled shop environment, through the use of real-life lab work projects, performed in house, when internships or co-op opportunities are not available.

Prerequisites: Sophomore status or permission of instructor.

TSTG 270 Practical Applications4 Credits

Designed to increase student competency through the use of internships or co-op training and real-life shop experiences in their chosen area specialty.

Prerequisites: Permission of instructor.

TSTG 275 ABS Diagnostics2 Credits

Introduction to anti-lock brake systems to include: ABS types and operation, diagnostics, traction control, stability control, regenerative braking and active braking systems.

Prerequisites: TSTC 100, TSTC 130, TSTC 160, TSTC 171, and TSTG 175.

TSTG 296 Topics1 or 2 Credits

Course may be taken multiple times up to maximum of 15 credit hours.