TRANSPORTATION SERVICES-GENERAL (TSTG)

TSTG 115 Gas Engine Reconditioning 4 Credits
Industry standard rebuild practices for gas engines. R & R of engine, complete disassembly, assembly and running of engine is covered.
Prerequisites: TSTC 100 and TSTC 101.

TSTG 120 Industrial Safety Practices 2 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 Systems 2 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 Power 3 Credits
Principles of hydraulics and pneumatic system including the construction, application, repair, maintenance and troubleshooting of components and systems.

TSTG 175 Brakes II 2 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 Control 4 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 220 Workplace Skills 3 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 Shop 4 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 Applications 4 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 Diagnostics 2 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 Topics 1 or 2 Credits
Course may be taken multiple times up to maximum of 15 credit hours.