

# TRANSPORTATION SERVICES-GENERAL (TSTG)

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## **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.

**Terms Typically Offered:** Fall, Spring.

## **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, and TSTC 130.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

## **TSTG 145 Technology in the Automotive Field 1 Credit**

Utilization of Excel spreadsheets, Word documents, PowerPoint, and other automotive-specific technology for informational purposes.

**Terms Typically Offered:** Spring.

## **TSTG 150 Introduction to Fluid Power 3 Credits**

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

**Terms Typically Offered:** Spring.

**Fees:** Yes.

## **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, and parking brakes.

**Prerequisites:** TSTC 100, TSTC 101, and TSTC 171.

**Terms Typically Offered:** Fall.

**Fees:** Yes.

## **TSTG 195 Climate Control 4 Credits**

Repair, diagnosis, removal, and/or replacement of climate control components. Includes 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.

**Prerequisites:** TSTC 100 and TSTC 101.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

## **TSTG 196 Topics 1-3 Credits**

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

## **TSTG 215 Engine Reconditioning 5 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.

**Fees:** Yes.

## **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.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

## **TSTG 245 Technology in the Automotive Field II 1 Credit**

Advanced utilization of Excel spreadsheets, Word documents, PowerPoint, and other automotive-specific technology for informational purposes. Use of technology for business marketing.

**Terms Typically Offered:** Spring.

## **TSTG 270 Practical Applications 4 Credits**

Development of student competency through the use of internships or co-op training and real-life shop experiences in the student's chosen area specialty.

**Terms Typically Offered:** Fall, Spring.

**Fees:** Yes.

## **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 101, TSTC 130, TSTC 171, and TSTG 175.

**Terms Typically Offered:** Fall.

**Fees:** Yes.

## **TSTG 295 Independent Study 1-3 Credits**

Course may be taken multiple times up to maximum of 6 credit hours.

## **TSTG 296 Topics 1 or 2 Credits**

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