

# TRID - TRADE & INDUSTRY

TRID 140 Auto Sheet Mtl Strct MIG Wldng. Term Typically Offered: Fall Demonstrates the basic methods and techniques used in GMAW (Gas Metal Arc Welding) also referred to as MIG (Metal Inert Gas) welding. The MIG welding concentration is focused on gauges of metal used in the production of modern automobiles. Lecture Hours 1, Lab Hours 2 Department: Transportation - COT	2 Credits	TRID 180 Electrical Systems. Term Typically Offered: Fall, Spring Prerequisite(s): M065 or appropriate placement score. Covers introductory material in Automotive Electrical Systems. This course is designed to give the student a strong background in the theory of operation, diagnosis, and repair of electrical and electronic systems. Theory of AC/DC electricity, Ohm's Law, magnetism, wiring, and measuring devices are discussed. Units covered include the theory of testing and/or repair of automotive and heavy-duty batteries, starters, alternators, and regulators. Lecture Hours 2, Lab Hours 4 Department: Transportation - COT	4 Credits
TRID 150 Environ/Shop Practices. Term Typically Offered: Fall, Spring Informs students on safety, hazardous materials and toxic waste. Students are given a working knowledge of tool use, measuring devices, fasteners, use of shop manuals, and hazardous waste precautions and handling procedures. Lecture Hours 2 Department: Transportation - COT	2 Credits	TRID 181 Transport Elect Systems Lec. Term Typically Offered: Fall, Spring Corequisite(s): TRID 182. Covers introductory theory of electrical systems found in the transportation and heavy equipment industry. This course is designed to give the student a strong background in the theory of operation of electrical and electronic systems. Theory of AC/DC electricity, Ohm's Law, magnetism, wiring, and measuring devices are discussed. Units covered include the theory of testing and/or repair of automotive and heavy-duty batteries, starters, alternators, and regulators. Lecture Hours 2 Department: Transportation - COT	2 Credits
TRID 151 Welding. Term Typically Offered: Fall, Spring A theory and practical course designed to give students experience in oxyacetylene welding, cutting, and arc welding processes used in the trade and industrial field applications. Various types of welders and electrodes are used for practice on weld coupons. Lecture Hours 1, Lab Hours 2 Department: Transportation - COT	2 Credits	TRID 182 Transport Elect Systems Lab. Term Typically Offered: Fall, Spring Corequisite(s): TRID 181. Covers introductory testing and repair of electrical systems found in the transportation and heavy equipment industry. This course is designed to give the student a strong background in the diagnosis and repair of electrical and electronic systems. Application of AC/DC electricity, Ohm's Law, magnetism, wiring, and measuring devices are applied. Units covered include the testing and/or repair of automotive and heavy-duty batteries, starters, alternators, and regulators. Lab Hours 2 Department: Transportation - COT	2 Credits
TRID 152 Vehicle Htg, Vent & AC. Term Typically Offered: Fall, Spring The auto air portion of this course is designed to help students gain an understanding and working knowledge of air conditioning systems and controls currently used in automobiles and trucks. Theory, diagnosis and service procedures, and environmental concerns are presented to give students the necessary skills to repair vehicle air conditioning systems. Lecture Hours 1, Lab Hours 4 Department: Transportation - COT	3 Credits	TRID 185 Intro Industrial Power Systems. Covers the fundamental principles of direct current and alternating current circuits and their use in an industrial setting. Also includes transformers and electrical distribution systems. Lecture Hours 2 Department: Transportation - COT	2 Credits
TRID 160 Hazrdz Mtrl Tech Gen Trng. Term Typically Offered: Spring Provides hazardous materials training needed to meet all requirements of the first responder at the awareness, operations, and technician level of emergency hazardous materials response. Technicians shall meet the training requirements in accordance with requirements of OSHA and NFPA (National Fire Protection Association). Lecture Hours 2, Lab Hours 2 Department: Transportation - COT	3 Credits	TRID 186 Intro Indstrl Pwr Systms Lab. Corequisite(s): TRID 185. Provides students exposure to major concepts of industry through hands-on laboratory investigations and application of principles learned in TRID 185. Lab Hours 1 Department: Transportation - COT	1 Credit
TRID 170 Engine Theory. Term Typically Offered: Fall Prerequisite(s): Eligible to enter WRIT 104 and either RD 101 or appropriate placement score. Theory-driven introductory course that will give the student a basic understanding of compression and spark ignition engines. This course will study engine components, terminology of engine design, and will provide a basic understanding of engine design and operation. This is not an engine overhaul course. Lecture Hours 2, Lab Hours 4 Department: Transportation - COT	4 Credits	TRID 294 Workshop. Provides an opportunity for experimental study in an area of trade and industry. Department: Transportation - COT	1-3 Credits
		TRID 296 Cooperative Educ/Internship. Department: Transportation - COT	1-8 Credits
		TRID 298 Internship. Credit varies. Integrates coursework with program-related work experience in business, industry, and/or government. Students do not receive pay. This must be coordinated through the department chairperson. Department: Transportation - COT	1-3 Credits