



243A Greens Rd., Houston, TX 77060 To Catalog Number 11, Effective 12/15/2024 Branch Campus of Tulsa Welding School, Tulsa, OK

SCHOLARSHIPS

Effective 2/1/2025, the Women in Skilled Trades scholarship, mentioned on page 38 of the School Catalog, has been discontinued.

EVALUATION OF CREDIT FOR PREVIOUS EDUCATION AND TRAINING FOR VETERANS BENEFITS

Effective 2/10/2025, the evaluation process as listed on page 55 of the School Catalog has been revised slightly. Students will not be certified for benefits until the Evaluation of Credit for Previous Education and Training Form has been completed and submitted along with appropriate military transcripts, and transcripts from all prior postsecondary institutions previously attended.

FINANCIAL INFORMATION

Effective 5/1/2025, the tuition and/or fees for the programs listed on pages 35-36 of the School Catalog have been revised. This applies to any enrollments on or after this date.

Program Name:	Professional Welder (Standard Pricing)	Professional Welder (Military Pricing)	Welding Specialist with Pipefitting (Standard Pricing)	Welding Specialist with Pipefitting (Military Pricing)
Tuition:	\$19,200	\$17,280	\$23,512	\$21,161
Registration Fee:	25	25	50	50
Technology Fee:	500	500	500	500
Lab Fees:	2,000	2,000	2,300	2,300
Course Materials/Textbooks:	350	350	394	394
Gear Package:	1,800	1,800	2,600	2,600
Accident Insurance:	300	300	300	300
Total Program Cost:	\$24,175	\$22,255	\$29,656	\$27,305

Program Name:	Electrical Applications (Standard Pricing)	Electrical Applications (Military Pricing)	Refrigeration Technologies (Standard Pricing)	Refrigeration Technologies (Military Pricing)
Tuition:	\$17,400	\$15,660	\$18,400	\$16,560
Registration Fee:	25	25	25	25
Technology Fee:	500	500	500	500
Lab Fees:	2,000	2,000	2,000	2,000
Course Materials/Textbooks:	1,700	1,700	1,000	1,000
Gear Package:	1,800	1,800	1,800	1,800
Accident Insurance:	100	100	100	100
Total Program Cost:	\$23,525	\$21,785	\$23,825	\$21,985

Program Name:	Electro-Mechanical Technologies (Standard Pricing)	Electro-Mechanical Technologies (Military Pricing)
Tuition:	\$22,000	\$19,800
Registration Fee:	25	25
Technology Fee:	500	500
Lab Fees:	2,000	2,000
Course Materials/Textbooks:	1,600	1,600
Gear Package:	1,800	1,800
Accident Insurance:	100	100
Total Program Cost:	\$28,025	\$25,825

PROGRAMS

Effective 6/1/2025, the 16-week version of the Professional Welder program will no longer allow enrollment of new students. This program version will no longer be offered.

Effective 6/11/2025, a new program, Advanced Industrial Maintenance Technology (AIMT), will be available. This program is in addition to those listed in pages 16-33 of the School Catalog. The schedule (pages 39-40), start/graduation dates (pages 44-49), and tuition and fees (pages 34-36) listed below are in addition to what is in the School Catalog. This program will be delivered in a hybrid modality, utilizing synchronous and asynchronous methods.

The information contained in this Catalog Addendum is true and correct to the best of my knowledge.

TULSA WELDING SCHOOL & TECHNOLOGY CENTER ®

Effective 6/30/2025, a new program offering an Associate in Applied Science in Welding Inspection and Quality Management (AASWI), will be available. This program is in addition to those listed in pages 16-33 of the School Catalog. The schedule (pages 39-40), start/graduation dates (pages 44-49), and tuition and fees (pages 34-36) listed in this Catalog Addendum are in addition to what is in the School Catalog. This program will be delivered in a hybrid modality, utilizing synchronous and asynchronous methods. In addition, the Admissions Requirements for the AOSWT Program (pages 12-13) are applicable for this program.

ADVANCED INDUSTRIAL MAINTENANCE TECHNOLOGY

700 Contact Hours / 27.5 Semester Credit Hours / 30 Weeks / 7 Months

The Advanced Industrial Maintenance Technology (AIMT) program contains seven courses, approximately 30 weeks, and 27.5 semester credit hours. The objective of the AIMT program is to train and prepare students for entry as industrial service and maintenance technicians in jobs that utilize technologies employed in the fields of manufacturing, distribution, energy production and facility maintenance. Students completing this program should have an understanding of mechanical and electrical principles, hazard awareness and mitigation, as well as manufacturing and distribution operations, and will have practical exposure to diagnosing, servicing and repairing common types of problems in related equipment. Upon successful completion of this program, students will receive a Diploma.

	Advanced Industrial Maintenance Technology Program Information							
Course Number	Title of Course	Semester Credit Hours	Lecture Hours	Lab Hours	Total Contact Hours	Outside Preparation Hours	Course Description	Prerequisite Course(s)
AIM 101	Introduction of Industrial Facilities	4	64	36	100	20	This course will introduce students to the broad history of Industrial Maintenance and the facilities of the industry, up to and including the present-day landscape. An overview of the types of machinery and control methods used to gain efficiency and drive production will be presented. By the end of this course students will have a basic knowledge of the careers and expectations of organizations across multiple disciplines as it relates to Industrial Maintenance Technicians in the industry today.	None
AIM 102	Safety Compliance	4	60	40	100	19	This course will introduce students to the many hazardous encounters they will need to anticipate while working in the industrial workspace. Introductions to LOTO, (Lock Out Tag Out), of electrical, mechanical, potentials of energy, as well as chemical sources of energy will be conducted. Students will explore safety related regulations and standards that are mandated by governing bodies. Other relevant topics include; OSHA 10 standards, Confined Space mandates, Lifting & Rigging safety, Fire Awareness and Prevention, Hazardous Chemical regulations and PPE, (Personal Protective Equipment).	None
AIM 103	Metrology & Inspections	4	50	50	100	15	In this course, students will learn the proper use and care of many measuring devices. Course participants will learn to interpret and record precise measurements, while understanding manufacturer's tolerances and suggested applications of measurements. This course will include both standard and metric readings and calculations, as many industrial facilities use both units of measure. Dimensional inspections will be a covered topic as well.	None
AIM 104	DC & AC Electrical Applications	4	58	42	100	10	This course will introduce students to electrical theory, application and units of measurement for DC and AC electrical quantities. This course is designed to teach students electrical circuit schematics and diagrams, symbols and calculations utilizing Ohm's and Kirchhoff's Law. Additional concepts that will be explored are; DC and AC power generation, consumption and measuring of Direct Current and Alternating Current quantities. Activities in this course will require students to design, calculate, build, measure and troubleshoot DC electrical circuits in series, parallel and in combination. Additional activities in this course will require students to measure and/or calculate capacitance, impedance, transformation and sine waves.	None

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1	Total Hours:	27.5	387	313	700	105		
AIM 107	Process Technology & Facility Maintenance	4	60	40	100	19	I his course will cover basic principles of refrigeration, heating and boiler operations with a primary focus on industrial and commercial equipment. Students will become familiar with using computer technology and instrumentation to operate equipment systems and relate that to the industrial process. Instruction and lab activities will include monitoring operating conditions like temperature, pressure, level, flow rates, and the use of testing equipment. This course will also test students on the intermediate level of industrial facility maintenance, as it relates to; main building power, switchgear, subpanels, distribution of power, fuses, transformers, single phase and 3-phase breakers and disconnects, automation & robotics basics, and CMMS, (Computerized Maintenance Management Systems).	None
AIM 106	Materials Processing & Fabrication	3.5	40	60	100	12	In this course, the student will learn to identify materials, such as; types of metals, types of composites and other workable materials. The selection, safety, and proper use of tooling, power tools and standard maintenance practices will be emphasized. The student will learn fabrication techniques through practice and demonstrating their ability to read a print, take precise measurements, utilize tools and equipment for shaping materials by cutting, grinding, drilling, tapping, bolting and safety wiring. Students will complete standard inspections and learn to document findings and order up new equipment and components.	None
AIM 105	Advanced Electrical Applications	4	55	45	100	10	This course will introduce students to an intermediate level of electrical theory, application and units of measurement for AC electrical quantities. This course is designed to teach students AC electrical circuit schematics and diagrams, symbols and calculations of multiple AC circuit components as applied to 3 phase, high voltage applications. Additional concepts that will be explored are; 3 phase power controls, modification, rectification and conversion. Activities in this course will require students to use recently acquired skills to perform high voltage terminations, phase to phase and line measurements of up to 480 volts, as well as programming and troubleshooting various control circuits with variable frequency drives, relays and programmable logic controllers.	None
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Note: Course numbers and sequences are listed here for reference only. The actual delivery sequence of courses contained in this program may vary depending on individual campus scheduling.

ASSOCIATE IN APPLIED SCIENCE IN WELDING INSPECTION AND QUALITY MANAGEMENT

1455 Contact Hours / 62.5 Semester Credit Hours / 60 Weeks / 14 Months

The Associate in Applied Science in Welding Inspection and Quality Management (AASWI) degree, available at the Houston campus only, consists of two academic years containing a total of 60 weeks and 62.5 semester credit hours. The first academic year of this program is the Professional Welder program (25 semester credit hours), which prepares a graduate for entry level positions in structural, pipe, and thin alloy and/or pipeline welding. The second academic year is directed toward course material for job entry as a Welding Quality Assurance/Quality Control Inspector (WQA/QCI) containing 37.5 semester credit hours. Each course shall be four days a week and will consist of three weeks.

A	Associate in Applied Science in Welding Inspection and Quality Management Program Information							
Course Number	Title of Course	Semester Credit Hours	Lecture Hours	Lab Hours	Total Contact Hours	Outside Preparation Hours	Course Description	Prerequisite Course(s)
WLD101	Welding Fundamentals	4.0	25	100	125	2	This course is designed to provide the student with a wide range of fundamental information about a career in welding and to begin building critical welding skills. Students learn about career opportunities and the importance of safety awareness that will be reinforced in later laboratory exercises. Other fundamental skills include learning the basic layout of construction drawings and how to read and correctly interpret welding symbols. Students learn thermal torch techniques to cut flat stock. They	None

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							will also learn and use Plasma Cutting and Carbon Arc gouging procedures. As they begin to learn about arc welding processes, students learn to set up welding equipment, the components of an arc welding machine, and the various types of electrodes used in arc welding procedures. Using an E7018 electrode, students begin by practicing basic SMAW welding processes and technique. Project assignments allow students an opportunity to practice and develop welding and cutting skills.	
WLD105*	GMAW/FCAW Processes	4.0	25	100	125	4	This course is designed to introduce students to two new and related welding processes. GMAW or MIG uses a torch designed to provide a shielding gas for the weld and an automatic wire feed system that provides a constant feed of the filler metal. FCAW or Fluxcore uses a similar torch but uses a powdered flux to shield the weld. These processes are a considerable departure from processes previously used. Students learn to set up and operate GMAW/FCAW welding equipment. These processes are applied in different combinations for welding plate in various basic positions. Students learn to correctly prepare pipe for GMAW/FCAW welding processes. In addition, as part of an expanding knowledge about construction drawings, students learn about isometric drawings and their importance as a three-dimensional picture of an object.	WLD101, WLD110, WLD115, WLD120
WLD110*	Structural Welding	4.5	25	100	125	7	This course essentially focuses on developing flat welding techniques in three basic positions and builds on the fundamental knowledge and skills learned in WLD101. SMAW processes are used to practice weld technique and perform basic butt welds using mild steel. Two primary welding exercises and students learn fundamental procedures related to root pass and fill welds. Students continue to build their skills through a series of project exercises designed to reinforce skills and knowledge learned. Students expand their knowledge about related welding diagrams and drawings and methods of coding various types of metal. Drawings are used to communicate lab project information and reinforce reading and interpreting welding symbols. Students are also introduced to basic destructive weld testing techniques and the importance of quality welds to achieve maximum strength and integrity of the metal. Basic principles of metallurgy explain to students the changes in metals' internal structure during the heating and cooling processes. Students are also introduced to welding pipe. The challenge is to weld consistently while moving around the pipe. Five- inch diameter pipe is cut using thermal processes and prepared for welding. For the exercise, students weld pipe in only one basic position.	WLD101
WLD115*	Pipe Welding	4.0	25	100	125	4	This course presents new challenges from the first two courses. Students expand their knowledge and skills to perform and practice basic pipe welding techniques using two welding processes (SMAW & GTAW). The GTAW process is introduced and students practice performing basic root welds on pipe coupons. The remainder of the welding procedure applies SMAW processes to complete the fill and cap welds. Reading and interpreting basic pipe drawings, students cut pipe coupons to length and bevel the pipe ends using thermal and mechanical beveling processes. Students face their first experience at practicing uphill and other welding techniques simultaneously. They practice welding in multiple positions as they travel around the pipe to complete the weld. Also, as a continuation of basic metallurgy, students learn various techniques for identifying types of metal using visual and mechanical tecting techniques	WLD101, WLD110

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Mary Kelly, President & CEO

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WLD120*	Advanced Pipe Welding	4.0	25	100	125	4	Students continue to develop, apply and practice their pipe welding skills. Mild steel pipe is welded in various positions using primarily GTAW (TIG) welding processes. In addition, students learn to use stainless steel electrodes to weld high carbon steel. Using two-inch diameter pipe, students practice using the GTAW process to weld the root and complete the fill and cap portion of the weld using SMAW processes. They also learn to properly rig and balance pipe loads, use hand signal communication to the crane operator, and lift and place pipe in preparation for welding operations. Most pipe welding is performed in an open environment using various types of portable welding equipment. Students learn to set up and safely operate portable welding units for structural and pipe welding operations. Emphasis is given to awareness about electrical safety and steps necessary to prevent electrical shock.	WLD101, WLD110, WLD115
WLD125*	Welding Capstone	4.5	25	100	125	7	The welding capstone course is a transition course from the classroom to the field. Students are challenged in the laboratory to use all the welding knowledge and skills they have gained in a series of exercises designed to reinforce prior instruction, hone skills, and practice production rates that meet industry standards. Students are given three possible options they can pursue to complete course requirements. The selection of the option depends on the method students intend to apply after graduation. Time is also given to prepare for and seek gainful employment. Students prepare resumes, practice the interview process, learn about good work ethics including work habits and appearance, and complete employment applications.	WLD101, WLD105, WLD110, WLD115, WLD120
WLD201	Basic Metallurgy & Destructive Testing	3	50	10	60	40	Students will learn the fundamentals of metal structure and properties. Students will learn how to test through destructive methods of cutting weld straps and checking tensile strength as well as any defects. Lab focus is on destructive testing applications.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
WLD205	Drawing & Fabrication Processes	3	55	5	60	40	Students will learn to analyze fabrication drawings, bills of materials, product dimensional tolerance standards, and specified fabrication processes. Lab activities reinforce the lecture information.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
WLD210	Visual & Leak Testing	3	50	10	60	40	Presentation of the oldest and most widely used method of Nondestructive Testing (NDT) which is visual inspection of welds and other specifications. Perform leak testing procedures according to ANSI and ASME specifications. Lab provides practice on these NDT competencies.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
WLD215	Liquid Penetrant & Magnetic Particle Testing	2.5	50	10	60	10	Students will learn the methods of PT testing to detect surface defects on non-porous solid material. Techniques and methods such as penetrant techniques, safety, and environmental considerations, along with the magnetic particle test method and its value for inspecting ferromagnetic materials will be discussed. Wet fluorescent magnetic particle testing method is included. Lab applications will reinforce associated theory.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
WLD220	Radiographic Testing Radiation Safety	2.5	50	10	60	10	Students will learn the theory and applications for the use of radiographic testing. In addition, students will learn the safety requirements for radiation environments.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
WLD225	Eddy Current Testing	2.5	50	10	60	10	Students will learn the NDT theory and techniques of eddy current testing processes. Lab assignments implement these various testing methods.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125

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WLD230	Ultrasonic Testing	3	50	10	60	40	Students will learn the acoustic relationships and physical principles associated with ultrasonic testing techniques. Lab applications reinforce the theory supporting this important process.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
WLD235	Quality Management Techniques	3	60	0	60	30	Students will learn the roles of the welding quality assurance/quality control inspector. Basics of total quality managements and statistical control will also be discussed.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
ENG100	English Composition^	3	45	0	45	90	This course develops written communication skills with an emphasis on understanding the writing process, analyzing readings, and practicing writing for personal and professional applications.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
HUM100	Introduction to Humanities^	3	45	0	45	90	This course is an exploratory approach to the humanities focusing on literature, philosophy, comparative religion, sculpture, & architecture in a social/historical framework.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
COM100	Speech Communication^	3	45	0	45	90	Students examine the function of language in the communication process as it applies to speech construction and delivery. Activities including discussion and delivery of prepared speeches provide communication skills for personal and professional applications.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
BHS100	Interpersonal Relations^	3	45	0	45	90	This course is a study of the development of interpersonal relations, exploring cognitive, behavioral, attitudinal, and contextual interpersonal skills.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
MTH100	Basic College Mathematics^	3	45	0	45	90	This course presents the fundamental concepts of a pre-algebra course. Students will be introduced to whole numbers, fractions and decimals, integers, order of operations, percents, signed numbers, measurements, geometry, probability, and basic algebra concepts.	WLD101, WLD105, WLD110, WLD115, WLD120, WLD125
Tot	al Hours:	62.5	790	665	1455	698		

AThis course is available via online courses only and is taken in tandem with other courses and does not add weeks to the total program length.

Note: Course numbers and sequences are listed here for reference only. The actual delivery sequence of courses contained in this program may vary depending on individual campus scheduling. All new students must take one of the listed courses scheduled by TWSTC, which meets four days a week. Total semester credit hours in the second academic year are 37.5. Courses may be taken in any order. On occasion, the student holiday schedule may impact the number of instructional days per week.

SCHEDULE

Program Name	Morning (M-F)	Evening (M-F)
AIMT	7:00am – 12:00pm	6:30pm – 11:30pm
AASWI	7:00am – 12:00pm	6:30pm-11:30pm

START & GRADUATION DATES

		AIMT	AASWI
Session Available	Start Dates	Graduation Dates	Graduation Dates
Morning	6/11/2025	1/13/2026	
	6/30/2025		2/5/2026
	7/21/2025		2/26/2026
Evening	8/8/2025	3/11/2026	
	8/11/2025		3/19/2026
	9/2/2025		4/9/2026
	9/22/2025		4/30/2026
Morning	10/6/2025	5/6/2026	
	12/1/2025		7/2/2026
Evening	12/9/2025	7/6/2026	
	12/29/2025		7/23/2026

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Program Name:	AIMT (Standard Pricing)	AIMT (Military Pricing)	AASWI- Upper Division (Standard Pricing)	AASWI- Upper Division (Military Pricing)
Tuition:	\$18,000	\$16,200	\$18,000	\$16,200
Registration Fee:	25	25	25	25
Technology Fee:	0	0	500	500
Lab Fees:	0	0	1,400	1,400
Course Materials/Textbooks:	1,028	1,028	2,900	2,900
Gear Package:	672	672	600	600
Accident Insurance:	150	150	300	300
Total Program Cost:	\$19,875	\$18,075	\$23,725	\$21,925

FINANCIAL INFORMATION

REFUND POLICY FOR STUDENTS CALLED TO ACTIVE MILITARY SERVICE

The verbiage in this section of the School Catalog (page 85) has been slightly revised as listed below.

2. A grade of Military (M) with the designation "withdrawn-military" will be assigned for the current course the student is attending in the program. The student retains the right to reenroll in the program, or a substantially equivalent program if that program is no longer available, not later than one year from the date the student is discharged from active military duty, without payment of additional tuition, fees, or other charges for the program other than any previously unpaid balance of the original tuition, fees, and charges for books in the program.

GRADING SYSTEM

There has been a new grade symbol added to the grading system in the School Catalog as listed below for the Grades & Grading System section (page 57) and the Qualitative Standards section of the SAP Policy (page 70).

Letter(s)	Term	Grade Point Value	Description
М	Military	N/A	This is assigned when a student is unable to complete a course when called into Active Military Service. (*Orders may be required.) This course grade will not be included in the SAP calculation.

