



Level 1	Construction Technology I Introduction to Welding
	Basic Fluid Power
Level 2	
Level 3	Electrical Technology I Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I
	Career Prep I
Level 4	

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NIMS (National Institute for Metal Working Skills) Industrial Technology Maintenance (ITM) - Basic Mechanical Systems	Certified Welder or Welder Inspector	Welding Technology/ Welder	Welding Engineering Technology/ Technician	Welding Engineering Technology/ Technician
NCCER Industrial Maintenance Mechanic, Level 1	Certified Welding Engineering	Industrial Engineering Technicians	Industrial Engineering Technicians	Industrial Engineering Technicians
NIMS ITM - Maintenance Operations				
NIMS ITM - Basic Mechanical Systems				

Occupations	Median Wage	Annual Openings	% Growth
Industrial Production Managers	\$106,205	827	9%
Industrial Engineers	\$97,074	1,263	10%
Industrial Engineering Technicians	\$61,672	326	9%
Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$53,498	667	9%
Industrial Machinery Mechanics	\$49,816	3,788	27%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Participate and compete in SkillsUSA Job shadow a machinist	Apprenticeship at a local business or industry

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Industrial Maintenance regional program of study focuses CTE learners on the occupations and educational opportunities available in maintaining and repairing manufacturing equipment and facilities. Students in this program of study will gain knowledge and experience in electrical, welding, hydraulics, plumbing, heating and air conditioning and construction technology.



The Manufacturing Career Cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Successful completion of the Industrial Maintenance regional program of study will fulfill requirements of the Business and Industry Endorsement. See the regions approved to offer this program of study at <https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/regional-programs-of-study>. Revised -July 2020.



