Our Mission

TMAC's mission is to increase the global competitiveness of the Texas economy by working to grow the extended manufacturing enterprise.

Category	Name	Duration	Description
Lean Manufacturing	Principles of Lean Manufacturing	8 Hours	Principles of Lean Manufacturing (with live simulation) is an overview class that provides a foundation for all other classes in the series.
	Value Stream Mapping	8 Hours	This course teaches the 8-step method of implementing Value Stream Management and is designed to create the awareness and necessity of the 8-step Value Stream.
	Lean Six Sigma - Green Belt Certificate	40 Hours	The Lean Six Sigma Green Belt certification course is designed for individuals who want to develop a strong understanding of Lean Six Sigma methodology and become proficient in leading process improvement projects within their organization. This course builds upon the foundational concepts covered in the Yellow Belt course and equips participants with advanced tools and techniques to drive significant improvements and achieve measurable results. Throughout the course, participants will learn how to identify and analyze process inefficiencies, reduce waste, improve quality, and enhance overall organizational performance.
	Lean Six Sigma - Yellow Belt Certificate	24 Hours	The Lean Six Sigma Yellow Belt certification course is designed to provide participants with a comprehensive understanding of the fundamental principles and tools of Lean Six Sigma methodology. This course is ideal for individuals who are new to process improvement or wish to enhance their problem-solving skills within their organization. The course focuses on providing practical knowledge and application techniques to address process inefficiencies, reduce waste, and improve overall performance.
	Lean Six Sigma - Black Belt Certificate	8 Hours	The combination of Lean and Six Sigma into a single philosophy in order to leverage the strengths of both.
	5S Workplace Organization (Course and Applied Course)	16 Hours	The 5S methodology is the cornerstone of creating discipline in the workplace and forms the foundation for all workplace improvements.
	Total Productive Maintenance	8 - 12 Hours	TPM is a method to proactively maintain machines and equipment at their peak productivity to increase return on capital assets. The 8 Pillars of TPM increases overall
	Set up Reduction and Quick Changeover (Applied)	24 Hours	A tool used to review a setup in order to minimize the downtime. It involves changing over a process to produce a different product in the most efficient manner.
	Standard Work & Cellular/Flow Manufacturing	8 - 12 Hours	This hands-on course teaches how to link and balance manufacturing operations to reduce lead times, minimize work in process, optimize floor space usage, and improve productivity.
	Managing by A3	8 Hours	A3 is the management process at the heart of lean leadership. A3 Thinking helps managers and executives identify, frame and act on problems and challenges facing their organizations.
	Intro to Basic Six Sigma	8 Hours	This class covers the basic concepts of Six Sigma, including data analysis, types of variation, common and special causes, the roles of Six Sigma team members, and the DMAIC method.
	Lean Manufacturing Implementation	3-12 or more months	TMAC field engineers apply lean manufacturing tools to solve problems related with manufacturing issues in a specific company.
Quality	AS 9100D Internal Auditor	24 Hours	This course will cover the requirements of AS 9100D and demonstrate how to interpret them within an organization as an internal auditor.
	ISO 9001:2015 Overview	16 Hours	This course provides Top Management overview training of the ISO 9001/AS 9100 requirements and the processes required to achieve ISO 9001/AS 9100 certification.
	ISO 13485:2016	16 Hours	This course is designed to render capable ISO 13485:2016 Internal Auditors. In addition to providing participants with insight and skills needed to identify QMS noncompliance to the Standard and performance concerns, attendees will also learn how to plan, execute, report and follow up on internal audits.
	ISO 14000:2016 Overview	10 Hours	ISO 14000 is a series of international standards designed to help organizations operate with sustainability, adhere to environmental regulations, and continuously improve processes.

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Quality	IATF 16949:2016	24 Hours	ISO 9001:2015 Internal Auditor with IATF 16949:2016 Supplier Auditor Certification; designed to meet automotive industry requirements for internal auditor training.
	Predominant Utility Usage Study (PUUS)	4 Hours	If 50% or more of your total facility energy usage is consumed by the manufacturing, you may be entitled to a state sales tax exemption and/or possibly a rebate.
	Statistical Process Control	8 Hours	The objective of this course is to learn how to collect, analyze, interpret, and present numerical data to make educated decisions.
	Quality Implementation	1—1.5 years	TMAC field engineers apply quality tools to solve problems related with quality issues in a specific company.
	Problem Solving and Root Cause Analysis	8 Hours	This hands-on course provides the background and skills necessary to lead effective Root Cause Analysis is a structured, team-based, analytical approach that helps detect potential problems and can alleviate chronic failure problems within an organization.
Safety Consulting	OSHA 30	30 Hours	The course is a comprehensive safety program designed for anyone involved in the manufacturing industry. Specifically devised for safety directors, foremen, and field supervisors, the program provides complete information on safety compliance issues
	OSHA 10	10 Hours	This course is designed for manufacturing workers as an ideal orientation to those who are new to the industry and as a reminder those who have been working in the industry to the hazards associated with their work.
	Forklift Certification	4 Hours	This forklift certification course fully complies with OSHA's general industry and construction standards for forklift operator training.
	First Aid CPR and AED Certification	4 Hours	The Standard CPR, AED, & First Aid course is a general workplace course for those who need CPR certification that also includes first aid for their job or to meet OSHA requirements.
	Adult CPR, Child CPR or Infant CPR.	4 Hours	In this course, you will learn how to administer live-saving help to adult, child and infant victims in order to help promote a better outcome until professional help arrives.
	Onsite Safety Inspections	4 Hours	Our trained staff is available to provide detailed formal assessments and offer suggestions to improve the safety of your employees on the job to meet OSHA requirement.
	Safety Program Development		This course trains supervisors and managers to incorporate best safety practices into their daily Management activities.
	JSA Development and Training per JSA		In JSA, the ultimate goal is to identify potential hazards in every step of a process and recommend the safest way to execute the job. JSA is a written procedure developed to understand, review, minimize or eliminate hazards associated with work processes.
	Safe Operating Procedures		The goal of this course is to develop a general understanding of standard operating procedures (SOPs) and safe work practices (SWPs) and a detailed understanding of how to review systems for risks.
	Confined Space Competent Person Training:		This confined space competent person course is designed for the legally bound competent person within a work site: an entry supervisor. There may be one or more supervisors at a worksite, and each of them must meet the confined spaces training requirements as defined in OSHA 1910.146.
	LOTO Procedures		This course specifically addresses the OSHA Control of Hazardous Energy (Lockout/Tagout) standard. It is designed to inform and educate employees how to properly lockout and tagout while servicing and maintaining equipment on the job.

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Strategic	Strategic Planning	40 Hours	Students will be able to articulate competitive advantage; develop values, vision and mission; perform environmental assessment and determine strategic issues; establish strategic plan with goals and metrics; develop and align operational objectives; deploy, measure and provide tactical response planning
	Basic Project Management	32 hours	Based on the PMI's PMBOK® Guide 6th Edition and taught to the Certified Associate in Project Manager — CAPM level
	Advanced Project Management	32 hours	Based on the PMI's PMBOK® Guide 6th Edition and taught to the Project Management Professional—PMP® level
Work Force	TWI - Job Instructions (JI)	10 Hours	The objective of Job Instruction is to help supervisors develop a well-trained workforce resulting in less scrap and rework, fewer accidents, and less tool and equipment damage.
	TWI - Job Methods (JM)	10 Hours	The aim of the Job Methods Training program is to help produce greater quantities of quality products in less time by making the best use of the people, machines, and materials now available.
	TWI - Job Relations (JR)	10 Hours	Supervisors are given foundations for developing and maintaining good relations to prevent problems from arising.
	TWI - Job safety (JS)	10 Hours	The objective of this course is to learn a method to analyze the chain of events leading to accidents and hazardous situations.
Manufacturing Supervisor Certificate	Manufacturing Supervisor Certificate	40 Hours	Students are taught interpersonal skills, tools and strategies to become a productive and respected manufacturing supervisor with an emphasis on continual improvement. Included in the curriculum are job instruction, employee relations, problem solving, Lean principles and effective communication.
Systems Engineering	Associate Systems Engineering Professional	24 Hours	ASEP is the preferred credential for professional systems engineers. Individuals with this credential command higher salaries then those without. Price for certification includes $200 for the ASEP examination.

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Manufacturing Design	SolidWorks Mechanical Design CSWA—Mechanical Design Certification	8 Hours	This course is designated for beginner SOLIDWORKS users. The material covered in this course will help you prepare for the CSWA exam and working with SOLIDWORKS CAD design tools.
	Blueprint Reading	16 Hours	This course provides knowledge and skills for professional blueprint reading of all types used in industrial plants. Course material is designed to prepare trainee for interpretation of industrial technical drawings.
	Intro to GD&T	8 Hours	Learn the essential concepts of GD&T, for mechanical and manufacturing engineers with practice exercises.
	Design for Manufacturability (Short course)	8 Hours	The course integrates the engineering, technology, and design technologies with manufacturing and service applications.
	AutoCAD 2D Essentials for Beginners	16 Hours	This course is tailored for individuals with little to no experience in AutoCAD, emphasizing fundamental 2D design concepts. Participants will gain hands-on experience with essential tools and commands, learning to create precise and professional 2D drawings.
Advance /Smart Manufacturing Technologies	PLC programming	16 Hours	The main objective of this hands-on course is to give a novice an introduction to programmable Logic Controllers (PLCs). The student will be introduced to the PLC hardware components, fundamentals of logic, basic of PLC programming, PLC wiring diagrams, programming timers, programming counters, and design of Human Machine Interfaces (HMIs). At the end of the class, the student will program the ladder logic and the HMI of an industrial case study. All the Labs will be conducted using Siemens PLCs and TIA portal .
	Simio Virtual Factory Models	24 Hours	This course is designed to introduce the fundamentals of simulation and Simio software. The student will be introduced to discrete-event simulation, Simio user interface, types of simulation, processes, objects, properties, states, entities, machine failure, model verification, what-if analysis, plots, exporting output data, Simio input parameters, sequence tables, relational tables schedules, task sequences, and model animation. At the end of the class, the students will be able to understand the fundamentals of simulation and the development of Virtual Factory Models.
	Additive Manufacturing Short Course	8 Hours	This short course covers relevant aspects of additive manufacturing processes to form three-dimensional artifacts with applications ranging from prototyping to production.
	Node-RED programming a IoT	8 Hours	The main objective of this hands-on course is to give an introduction to the flow-based programming tool Node-RED. This tool is used to connect IoT devices and software applications. The student will be introduced to Node-RED and flow -based programming, software installation, basic usage of Node-RED, introduction to the major nodes, implementation of Node-RED locally, and implementation of Node-RED in the Could.
	Industrial robotics programming	8 Hours	The main objective of this hands-on course is to give an introduction to industrial robots programming. The student will be introduced to industrial robots' architecture, setting up end-effectors, creating basic programs, external device integration (e.g., sensors, buttons, conveyor belts), path optimization, program flow, force control, and palletizing. Furthermore, industrial robot control through PLC integration will be introduced. All labs will be conducted using a Universal Robot and Siemens PLC .

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Supply Chain Management	CPIM Part 1	28 Hours	This course will help to study for CPIM exam. Part 1 of this learning system can present following basics and can be used as a stand-alone course for wide range of audiences. Module 1: Supply Chain Overview Module 2: Fundamentals of Demand Management Module 3: Plan Supply Module 4: Execute Supply Plan Module 5: Inventory Management Module 6: Continuous Improvement/Quality Management and Technologies
	CPIM Part 2	32 Hours	This part of the course covers all the topics in depth from the CPIM part 1. This course will be very helpful for the audiences those work directly in the field of supply chain. It covers the following topics: Module 1: Strategy Module 2: Sales and Operations Planning Module 3: Demand Module 4: Supply Module 5: Inventory Module 6: Detailed Schedules Module 7: Distribution Module 8: Quality, Continuous Improvement and Technology
	Supply Chain Warehousing Certificate	16 Hours	The Supply Chain Warehousing Certificate, developed by ASCM in partnership with Prologis, signifies the completion of a foundational education program designed to help individuals build their knowledge in warehousing and distribution. The program provides an overview of distribution inventory management, product storage, packaging and shipment, sustainability in logistics and so much more.

WE'VE WORKED WITH A DIVERSE CUSTOMER BASE. HOW CAN WE WORK WITH YOU?

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