

CAREERS IN ADVANCE MANUFACTURING



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Skilled Group Leader
TMMTX AMT Lead



TXFAM 

**Aligning Economic and Workforce Development to
Meet Industry Demands**





CHANGING INDUSTRIES



ADVANCE AUTOMATION







INDUSTRY-LED TRAINING

- **TX FAME – Texas Federation for Advanced Manufacturing Education**
 - An industry – sponsored partnership of regional employers who share the goal of creating a pipeline of highly skilled workers
- **AMT – Advanced Manufacturing Technician Program**
 - Offered at St. Philips College Southwest Campus





AMT PROGRAM

- College + Work Experience
- Applied Associate's Degree
- Earning While Learning
- Potential for No College Debt
- Potential Job Offer
- Criteria:
 - College and Career Ready
 - Academic Success
 - STEM



A.A.S. ADVANCE MANUFACTURING TECHNOLOGY

Program Revision Form AAS/Certificate/Marketable Skills Award Existing, showing proposed changes						
						College: SPC
Degree Plan Title:		Advanced Manufacturing Technology (AMT), AAS			Effective Term: Fall 2015	
Degree Plan Description: The Instrumentation program is designed to prepare students for a career in instrumentation and process control. Instrumentation technicians are employed in a large variety of industries to maintain equipment that controls temperature, pressure, and flow of material or speed and position of objects. Manufacturers such as Toyota, General Motors, Motorola, HEB and Temple Inland use process control to manufacture automobiles, electronic devices, cardboard containers and food products. Other industries use process control technicians to refine petroleum products, process chemicals and other materials. Just about everything you use or consume owes its existence to an instrumentation technician.						
Degree CIP:		15.0404			Major Code:	
Department:		AEMT			ApplyTexas Code:	
Semester 1						
CETT 1409 DC-AC Circuits		Lecture	Lab	External	Contact	Credit
		4	1	0	80	4
ELMT 1305 Basic Fluid Power		2	4	0	96	3
INMT 2303 Pumps, Compressors & Mechanical Drives		2	2	0	64	3
MATH 1314 College Algebra		3	0	0	48	3
Semester 1 Total:		11	7	0	288	13
Semester 2						
ENGL 1301 English Composition I		3	0	0	48	3
INTC 1357 AC/DC Motor Control		2	4	0	96	3
RBTC 1347 Electromechanical Devices		3	1	0	64	3
MCHN 1438 Basic Machine Shop		2	4	0	96	4
Semester 2 Total:		10	9	0	304	13
Semester 3						
CPMT 1303 Introduction to Computer Technology		2	4	0	96	3
ARTS 2326 Sculpture I		3	3	0	96	3
Semester 3 Total:		5	7	0	192	6
Semester 4						
RBTC 1305 Robotic Fundamentals		3	1	0	64	3
INTC 2433 Instrumentation Systems Installation		4	1	0	80	4
RBTC 1301 Programmable Logic Control		3	1	0	64	3
WLDG 1428 Introduction to Shielded Metal Arc Welding		2	6	0	128	4
Semester 4 Total:		12	9	0	336	14
Semester 5						
EECT 2266 Practicum (or Field Experience) - Electrical, Electronic, and Communication Engineering Technology/Technician		0	0	16	256	2
INTC 2330 - Instrumentation Systems Troubleshooting		3	1	0	64	3
ECON 1301 - Introduction to Economics		3	0	0	48	3
PHYS 1305 Introductory Physics I Lecture		3	0	0	48	3
RBTC 2339 Robot Programming and Diagnostics		3	1	0	64	3
Semester 4 Total:		12	2	16	480	14
		50	34	16	1600	60
Total Degree Plan hours						

**Program Revision Form
AAS/Certificate/Marketable Skills Award
as it will appear after changes are made**

Degree Plan Title: _____

Degree Plan Description: _____





WHAT DO AMTS LEARN?

- **Technical Skills**
 - Electricity, Robotics, Fluid Power, Mechanics, PLCs, Industrial Troubleshooting
- **Manufacturing Core Exercises**
 - Safety Culture, Visual Workplace Organization, Lean Manufacturing, Problem Solving, and Machine Reliability
- **Professional Behaviors**
 - Attendance, Initiative, Diligence, Interpersonal Relations, Teamwork, Communication



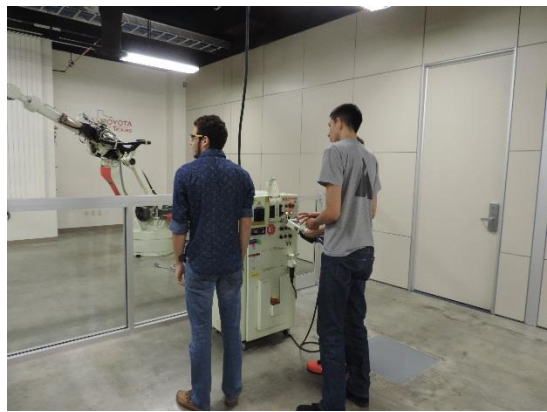
WHAT DO NEXT GENERATION TECHNICIAN LOOK LIKE?

Good communicator



High school Problem Solver

Team Oriented



College Critical Thinker

Strong math skills



Job Experienced Hands on Learner



Career ready





STATUS OF AMT

- Program began in 2013
- 33 Graduates
- 24 Hired by Toyota
- Expanding Sponsorships
- Fall 2017 – 40 open slots





PARTICIPATING COMPANIES





APPLY TO AMT

- www.TXFAME.com

- Contact:

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210-335-0892



QUESTIONS

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