

Agricultural Mechanics & Metal Technologies

At-A-Glance - Lamar CISD

Ongoing Skills Imbedded All Year	Professional Standards/Employability Skills/Technical Skills		
		AMMT 2(A) The student will plan, propose, conduct, document, and evaluate a supervised agricultural experience program as an experiential learning activity. AMMT 2(B) The student will apply proper record-keeping skills as they relate to the supervised agriculture experience. AMMT 2(C) The student will participate in youth leadership opportunities to create a well-rounded experience program. AMMT 2(D) The student will produce and participate in a local program of activities using a strategic planning process.	
Ongoing Ways to Show	AET record book.		
Grading Period	Unit Name	Estimated Time Frame	TEKS
Grading Period 1 29 Days	Safety and Career Development	29 Days	1D, 1A, 1C, 1E, 1F, 1B, 2A, 2B, 2C, 2D, 7A; AWS
	AMMT 1(D) The student will demonstrate knowledge of personal and occupational health, safety, and first-aid practices in the industry. AMMT 1(A) The student will identify career development and entrepreneurship opportunities in the field of power, structural, and technical agricultural systems. AMMT 1(C) The student will examine licensing, certification, and credentialing requirements to maintain compliance with industry requirements. AMMT 1(E) The student will identify employers' expectations, and appropriate work habits. AMMT 1(F) The student will demonstrate characteristics of good citizenship, including advocacy, stewardship, and community leadership. AMMT 1(B) The student will apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation of power, structural, and technical agricultural systems. AMMT 2(A) The student will plan, propose, conduct, document, and evaluate a supervised agricultural experience program as an experiential learning activity. AMMT 2(B) The student will apply proper record-keeping skills as they relate to the supervised agriculture experience. AMMT 2(C) The student will participate in youth leadership opportunities to create a well-rounded experience program. AMMT 2(D) The student will produce and participate in a local program of activities using a strategic planning process. AMMT 7(A) The student will identify materials used in agricultural construction. AWS The student will identify materials used in welding.		
Grading Period 2 26 Days	Carpentry	4 Days	7C
	AMMT 7(C) The student will demonstrate basic carpentry skills.		
	Tools & Equipment	4 Days	10A
	AMMT 10(A) The student will select, use, and maintain appropriate tools, equipment, and facilities.		
	Metal	10 Days	9A, 10B
	AMMT 9(A) The student will identify types of metal. AMMT 10(B) The student will identify and determine properties, types, and uses of metal.		
	Welding Equipment	4 Days	AWS
	AWS The student will select and maintain welding equipment.		
Welding Terms	4 Days	AWS	
AWS The students will demonstrate knowledge of basic welding terminology.			

Grading Period 3 25 Days	Oxy-Fuel	8 Days	9C
	AMMT 9(C) The student will select and operate oxy-fuel welding and cutting equipment to meet standards.		
	Electric Arc	10 Days	9D
	AMMT 9(D) The student will select and operate electric-arc welding equipment to meet standards.		
	Plasma Arc	7 Days	AWS
AWS The student will select plasma arc cutting equipment and operate to meet standards.			
Grading Period 4 32 Days	Project Process	4 Days	11A
	AMMT 11(A) The student will analyze site, equipment, and permit requirements.		
	CAD	4 Days	11B
	AMMT 11(B) The student will operate computer-aided drafting design software.		
	Designs/Sketches	3 Days	11C
	AMMT 11(C) The student will develop, read, and interpret designs and sketches.		
	Material Costs	4 Days	11D
	AMMT 11(D) The student will estimate material needs and costs.		
	Material	4 Days	11E
	AMMT 11(E) The student will measure, mark, and cut material.		
	Nonmetallic Fabrication	4 Days	11F
	AMMT 11(F) The student will perform specialized nonmetallic fabrication techniques.		
	Metallic Fabrication	5 Days	AWS
AWS The student will perform specialized metallic fabrication techniques.			
Cost & Bid	4 Days	7B; AWS	
AMMT 7(B) and AWS The student will identify elements of a cost estimate and prepare a bid package for a planned project.			
Grading Period 5 32 Days	Fences	2 Days	8A
	AMMT 8(A) The student will select fencing materials.		
	Install Fences	2 Days	8B
AMMT 8(B) The student will plan and install fences.			

	Tools Instructions	8 Days	3A, 3B
	AMMT 3(A) The student will select, use, maintain and store appropriate hand tools to perform a given task. AMMT 3(B) The student will select, use, maintain, and store appropriate power equipment such as tools powered by electric, pneumatic, and internal combustion engines.		
	Tools/Measuring	7 Days	3C; AWS
	AMMT 3(C) The student will select and use measuring and marking devices. AWS The student will apply accurate readings of measuring devices, both U.S. customary and metric.		
	Measure/Cut	13 Days	9B; AWS
AMMT 9(B) The student will cut, file, shape, and drill metal. AWS The student will identify acceptable cuts.			
Grading Period 6 29 Days	Electricity	3 Days	4A
	AMMT 4(A) The student will identify principles of electric and wiring terminology.		
	Electric Wiring	2 Days	4B, 4C
	AMMT 4(B) The student will install electric wiring components and fixtures to comply with government regulations and applicable codes. AMMT 4(C) The student will maintain electric motors.		
	Plumbing Tools	3 Days	5A
	AMMT 5(A) The student will identify and select plumbing tools.		
	Plumbing Equipment	2 Days	5B
	AMMT 5(B) The student will identify plumbing fixtures.		
	Cost Estimate	2 Days	6A
	AMMT 6(A) The student will project cost estimates for materials.		
	Concrete	3 Days	6B
	AMMT 6(B) The student will form and pour concrete slabs.		
	Welding	11 Days	9E
	AMMT 9(E) The student will perform specialty welding and cutting techniques to meet standards.		
Paint	3 Days	7D	
AMMT 7(D) The student will paint and protect a project with coating.			