Agricultural Mechanics & Metal Technologies At-A-Glance - Lamar CISD

Ongoing	Professional Standards/Employability Skills/Technical Skills				
Skills Imbedded All Year	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		
	Safety and Career Development	29 Days	OSHA 127.17d 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1D, 1A, 1C, 1E, 1F, 1B, 2A, 2B, 2C, 2D, 7A; AWS		
Grading Period 1 29 Days	127.17(d)(1) The student will explain and discuss the responsibilities of workers and employers to promote safety and health in the workplace and the rights of workers to a secure workplace. 127.17(d)(2) The student will explain and discuss the importance of OSHA standards and OSHA requirements for organizations, in OSHA inspections are conducted, and the role of national and state regulatory entities. 127.17(d)(3) The student will explain the role industrial hygiene plays in occupational safety and explain various types of industrial hygiene plazards, including physical, chemical, biological, and ergonomic. 127.17(d)(4) The student will idecuss the importance of safe walking and working surfaces in the workplace and best practices for preventing or reducing slips, trips, and falls in the workplace. 127.17(d)(6) The student will discuss the importance of safe walking and workplace and the risks associated with these hazards and describe control methods to prevent electrical hazards in the workplace. 127.17(d)(6) The student will analyze the hazards of handling, storing, using, and transporting hazardous materials and identify and discuss ways to reduce exposure to hazardous materials in the workplace. 127.17(d)(8) The student will identify workplace health and safety resources, including mergency plans and Safety Data Sheets, and discuss how these resources are used to make decisions in the workplace. 127.17(d)(6) The student will describe the elements of a safety and health program, including management leadership, worker participation, and education and training. 127.17(d)(1) The student will explain the purpose and importance of written emergency action plans and fire protection plans and describe key components of each such as evacuation plans and emergency exit routes, list of fire hazards, and identification of emergency personnel. 127.17(d)(1) The student will explain the components of a hazard communication program. 127.17(d)(1) The student will explain the components of a hazard communication				
	Carpentry	4 Days	7C		
	AMMT 7(C) The student will demonstrate basic carpentry skills.		•		

	Tools & Equipment	4 Days	10A		
Grading	AMMT 10(A) The student will select, use, and maintain appropriate tools, equipment, and facilities.				
Period 2	Metal	10 Days	9A, 10B		
27 Days	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	5 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.				
	Oxy-Fuel	10 Days	9C		
Grading Period 3 28 Days	AMMT 9(C) The student will select and operate oxy-fuel welding and cutting equipment to meet standards.				
	Electric Arc	11 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.				
	Project Process	4 Days	11A		
	AMMT 11(A) The student will analyze site, equipment, and permit requirements.				
	CAD	3 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.				
Grading	Material Costs	4 Days	11D		
Period 4	AMMT 11(D) The student will estimate material needs and costs.				
31 Days	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	on 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 30 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	11 Days	9B, AWS		
	AMMT 9(B) The student will cut, file, shape, and drill metal. AWS The student will identify acceptable cuts.				
	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	2 Days	5A		
	AMMT 5(A) The student will identify and select plumbing tools.				
Grading	Plumbing Equipment	2 Days	5B		
Period 6 27 Days	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	2 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.				