Introduction to Agricultural Mechanics – Grade Levels 9-12
TEKS Manager

Credit: (1/2) Place a check (√) in each column to show TEKS taught.

	TEKS	1st 6 wks	2nd 6 wks	3rd 6 wks
(b) Introduction. To be prepared for careers in mechanized agricultural systems, students need to attain academic skills and knowledge, to acquire knowledge and skills related to mechanized agricultural systems and the workplace, and to develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need to have opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.				
(c) Knowledge and skills. (1) The student **learns** the employability characteristics of a successful worker in the modern workplace. The student is expected to:	(A) **identify** career development and entrepreneurship opportunities in the field of mechanized agriculture;			
	(B) **apply** competencies related to resources, information, interpersonal skills, and systems of operation of mechanized agriculture;			
	(C) **demonstrate** knowledge of personal and mechanical safety practices in the workplace;			
	(D) **identify** employers' expectations, appropriate work habits, and good citizenship skills; and			
	(E) **plan** and manage supervised agricultural experience programs.			
(2) The student **identifies** and safely uses tools and equipment. The student is expected to:	(A) **identify** and use hand and power tools; and			
	(B) **select** and use measuring and marking devices.			

	TEKS	1st 6 wks	2nd 6 wks	3rd 6 wks
(3) The student **identifies** and performs basic electric wiring skills. The student is expected to:	(A) **identify** basic principles of electric wiring and wiring terminology;			
	(B) **perform** basic electric wiring skills; and			
	(C) **maintain** electric motors.			
(4) The student **performs** basic plumbing skills. The student is expected to:	(A) **identify** plumbing tools and fixtures;			
	(B) **install** pipe and plumbing fixtures; and			
	(C) **maintain** water systems.			
(5) The student **performs** basic concrete construction skills. The student is expected to:	(A) **estimate** materials and construct forms; and			
	(B) **reinforce**, place, finish, and cure concrete.			
(6) The student **performs** basic carpentry skills. The student is expected to:	(A) **identify** building materials;			
	(B) **plan** cost-effective construction;			
	(C) **apply** basic carpentry skills; and			
	(D) **apply** paints and preservatives.			
(7) The student **identifies** fencing methods. The student is expected to:	(A) **select** fencing materials; and			
	(B) **plan** and construct fences.			
(8) The student **performs** cold and hot metal skills. The student is expected to:	(A) **identify** types of metal;			
	(B) **cut**, **file**, **shape**, and **drill** metal;			
	(C) **select** and operate oxy-fuel welding and cutting equipment; and			
	(D) **select** and operate electric-arc welding equipment.			

© PISD D of C – CTE 2007