Practicum in Construction Technology
At-A-Glance - Lamar CISD

Ongoing Skills Imbedded All Year	Professional Standards/Employability Skills/Technical Skills		
	PCT 1(B) The student will demonstrate critical-thinking skills. PCT 1(C) The student will demonstrate the ability to solve problems using critical-thinking skills. PCT 1(D) The student will demonstrate knowledge of basic computer systems. PCT 1(E) The student will explain common uses for computers in the construction industry. PCT 1(F) The student will demonstrate effective relationship skills.		

Grading Period	Unit Name	Estimated Time Frame	TEKS
Grading Period 1 **29 Days**	**Career and Employability Skills**	**5 Days**	1A, 1B, 1C, 1D, 1E, 1F, 1G
	PCT 1(A) The student will explain the role of an employee in the construction industry. PCT 1(B) The student will demonstrate critical-thinking skills. PCT 1(C) The student will demonstrate the ability to solve problems using critical-thinking skills. PCT 1(D) The student will demonstrate knowledge of basic computer systems. PCT 1(E) The student will explain common uses for computers in the construction industry. PCT 1(F) The student will demonstrate effective relationship skills. PCT 1(G) The student will recognize workplace issues such as sexual harassment, stress, and substance abuse.		
	Project Requirements	**5 Days**	2A, 2B, 2C
	PCT 2(A) The student will identify and describe the steps required to complete a project using project management processes, including initiating, planning, executing, monitoring and controlling, and closing a project. PCT 2(B) The student will determine and acquire the resources needed to complete a project. PCT 2(C) The student will develop a project schedule.		
	Code, Laws, Regulations	**10 Days**	3A, 3B, 3C
	PCT 3(A) The student will identify areas where codes, laws, standards, or regulations may be required. PCT 3(B) The student will locate the appropriate codes, laws, standards, or regulations. PCT 3(C) The student will interpret and follow the appropriate codes, laws, standards, or regulations.		
	Project Flowchart	**7 Days**	4A, 4B, 4C, 4D
	PCT 4(A) The student will use an assessment strategy to determine the task's needs. PCT 4(B) The student will describe why each task needs to be in the order it has been assigned. PCT 4(C) The student will assess the time frame for each task. PCT 4(D) The student will plot a completed project flowchart expectation.		
	Technological Solutions	**2 Days**	5A, 5B, 5C
	PCT 5(A) The student will develop or improve a product by following a problem-solving strategy. PCT 5(B) The student will apply critical-thinking strategies to the analysis and evaluation of proposed technological solutions. PCT 5(C) The student will apply decision-making techniques to the selection of technological solutions.		
Grading Period 2 **27 Days**	**Budget**	**7 Days**	6A, 6B, 6C
	PCT 6(A) The student will develop a bill of materials list for the complete project. PCT 6(B) The student will develop a budget, including a cost list, for the complete project. PCT 6(C) The student will determine the most effective way to minimize project costs.		

	Technical Report	**10 Days**	7A, 7B, 7C, 7D
	PCT 7(A) The student will write technical reports. PCT 7(B) The student will deliver technical presentations to the instructor. PCT 7(C) The student will identify and describe the mathematical concepts used in projects. PCT 7(D) The student will identify and describe the science concepts used in projects.		
	Construction Project Expectations	**10 Days**	8A, 8B, 8C
	PCT 8(A) The student will determine and use the appropriate technology needed to solve a problem or complete a task. PCT 8(B) The student will evaluate the use of technology in a given situation. PCT 8(C) The student will describe the factors that influence the use of technology in a variety of situations.		
Grading Period 3 **28 Days**	**Project**	**28 Days**	2A, 2B, 2C, 6A, 6B, 6C
	PCT 2(A) The student will identify and describe the steps required to complete a project using project management processes, including initiating, planning, executing, monitoring and controlling, and closing a project. PCT 2(B) The student will determine and acquire the resources needed to complete a project. PCT 2(C) The student will develop a project schedule. PCT 6(A) The student will develop a bill of materials list for the complete project. PCT 6(B) The student will develop a budget, including a cost list, for the complete project. PCT 6(C) The student will determine the most effective way to minimize project costs.		
Grading Period 4 **31 Days**	**Technical Report 2**	**3 Days**	7A, 7B, 7C, 7D
	PCT 7(A) The student will write technical reports. PCT 7(B) The student will deliver technical presentations to the instructor. PCT 7(C) The student will identify and describe the mathematical concepts used in projects. PCT 7(D) The student will identify and describe the science concepts used in projects.		
	Project 2	**28 Days**	2A, 2B, 2C, 6A, 6B, 6C
	PCT 2(A) The student will identify and describe the steps required to complete a project using project management processes, including initiating, planning, executing, monitoring and controlling, and closing a project. PCT 2(B) The student will determine and acquire the resources needed to complete a project. PCT 2(C) The student will develop a project schedule. PCT 6(A) The student will develop a bill of materials list for the complete project. PCT 6(B) The student will develop a budget, including a cost list, for the complete project. PCT 6(C) The student will determine the most effective way to minimize project costs.		
Grading Period 5 **30 Days**	**Technology Documentation 3**	**3 Days**	7A, 7B, 7C, 7D
	PCT 8(A) The student will determine and use the appropriate technology needed to solve a problem or complete a task. PCT 8(B) The student will evaluate the use of technology in a given situation. PCT 8(C) The student will describe the factors that influence the use of technology in a variety of situations.		
	Project 3	**27 Days**	2A, 2B, 2C, 6A, 6B, 6C
	PCT 2(A) The student will identify and describe the steps required to complete a project using project management processes, including initiating, planning, executing, monitoring and controlling, and closing a project. PCT 2(B) The student will determine and acquire the resources needed to complete a project. PCT 2(C) The student will develop a project schedule. PCT 6(A) The student will develop a bill of materials list for the complete project. PCT 6(B) The student will develop a budget, including a cost list, for the complete project. PCT 6(C) The student will determine the most effective way to minimize project costs.		
Grading Period 6 **27 Days**	**Technology Documentation 4**	**3 Days**	7A, 7B, 7C, 7D
	PCT 8(A) The student will determine and use the appropriate technology needed to solve a problem or complete a task. PCT 8(B) The student will evaluate the use of technology in a given situation. PCT 8(C) The student will describe the factors that influence the use of technology in a variety of situations.		

	Project 4	24 Days	2A, 2B, 2C, 6A, 6B, 6C
	PCT 2(A) The student will identify and describe the steps required to complete a project using project management processes, including initiating, planning, executing, monitoring and controlling, and closing a project. PCT 2(B) The student will determine and acquire the resources needed to complete a project. PCT 2(C) The student will develop a project schedule. PCT 6(A) The student will develop a bill of materials list for the complete project. PCT 6(B) The student will develop a budget, including a cost list, for the complete project. PCT 6(C) The student will determine the most effective way to minimize project costs.		