Ag Fabrication-18409

Name _____ PST.AF

S.S.# _____/_____/_____

Enrollement Date __/__/__	Completion Date __/__/__	Hours Completed ___

I Certify that the student received training in the areas indicated

Student Signature _____ Date __/__/__

Instructor Signature _____ Date __/__/__

Rating Scale:

3	Mastery of Subject Matter	**M**	Math Competency
2	Limited Mastery of Subject Matter	**E**	Communication Competency
1	Non Mastery of Subject Matter	**S**	Science Competency
0	No Exposure to Subject Matter	**C**	Career Development Skill
		L	Laboratory Based Activity

	58	*Ag Mech Orientation*		
3 2 1 0	1	Identify career opportunities in ag fabrication	*C*	3 2 1 0
3 2 1 0	2	Id levels of education forfabrication careers	*C*	3 2 1 0
3 2 1 0	**59**	*Obtaining a job*		3 2 1 0
3 2 1 0	1	Writing letters of application	*C*	3 2 1 0
3 2 1 0	2	filling out the job application	*C*	3 2 1 0
3 2 1 0	3	Developing the resume	*C*	3 2 1 0
3 2 1 0	4	Preparing for the interview	*C*	3 2 1 0
3 2 1 0	5	Interviewing Techniques	*C*	3 2 1 0
3 2 1 0	6	Job Benefits & forms	*C*	3 2 1 0
3 2 1 0	7	Investing job earnings	*C*	3 2 1 0
3 2 1 0				3 2 1 0
3 2 1 0	**60**	*Practice safe work habits*		3 2 1 0
3 2 1 0	1	Pass safety exam with 100% accruacy		3 2 1 0
3 2 1 0	2	Keep lab & work area clean and orderly		3 2 1 0
3 2 1 0	3	Wear proper clothing and eye protection		3 2 1 0
3 2 1 0	4	Use appropriate guards and shields		3 2 1 0
3 2 1 0	5	Identify hazardous conditions		3 2 1 0
3 2 1 0	6	Observe safety practices when operating		3 2 1 0
3 2 1 0		Power & hand tools		3 2 1 0
3 2 1 0		Arc welding equipment		3 2 1 0
3 2 1 0		oxyactelene equipment		3 2 1 0
3 2 1 0		plasma cutting equipment		3 2 1 0
3 2 1 0		metal shearing equipment	*LM*	3 2 1 0
3 2 1 0	**61**	*Metalurgy*		3 2 1 0
3 2 1 0	1	Understand physical & chem properties of metals	*S*	3 2 1 0
3 2 1 0	2	Explain Steel classification & Identification	*SL*	3 2 1 0
3 2 1 0	3	Differentiate between carbon and alloy steels		3 2 1 0
3 2 1 0	4	Recognize standard steel shapes		3 2 1 0
3 2 1 0	5	identify metals using spark test	*LM*	3 2 1 0
3 2 1 0	6	Analyze the impact heat treatment processes;		3 2 1 0
3 2 1 0		Stress relieving		3 2 1 0
3 2 1 0		normalizing		3 2 1 0
3 2 1 0		annealing		3 2 1 0
3 2 1 0		hardening & tempering		3 2 1 0

	7	Relate heat treatment & grain size to metal strength	S	3 2 1 0
	8	Define eutectoid point	*S*	3 2 1 0
	9	Relate color change to hardness		3 2 1 0
	62	***Joint Design & Welding Symbols***		3 2 1 0
	1	Identify the types of weld joints		3 2 1 0
	2	Analyze the joint design for strenght and application		3 2 1 0
	3	Explain the components of welding symbols		3 2 1 0
	4	Apply welding symbols to blueprints		3 2 1 0
	5	Identify symbols for specific welds		3 2 1 0
	63	***Material Layout & selection***		3 2 1 0
	1	Explain the importance of efficient material layout		3 2 1 0
	2	Perform material layout		3 2 1 0
	3	Analyze material shape for strenght & application		3 2 1 0
	4	Calculate material cost	*M*	3 2 1 0
	5	Compute bill of materials	*M*	3 2 1 0
	64	***Gas Metal Arc Welding***	*L*	3 2 1 0
	1	Review GMAW processes	*L*	3 2 1 0
	2	Perform welds in 1G,1F 2G, 2F, 3G, 3F,4G,4F	*L*	3 2 1 0
	3	Perform welds using short circuit	*L*	3 2 1 0
	4	perform welds using spray arc	*L*	3 2 1 0
	5	Read charts & determine equipment settings	*L*	3 2 1 0
	6	perform welding using flux core welding	*L*	3 2 1 0
	65	*TIG Welding*		3 2 1 0
	1	Describe the tig welding process		3 2 1 0
	2	Identify the parts of the tig welder		3 2 1 0
	3	Select & prepare electrode for variety of applications		3 2 1 0
	4	Perform welds for 1F, 1G	*L*	3 2 1 0
		Aluminum	*L*	3 2 1 0
		Stainless Steel	*L*	3 2 1 0

	65	*Gas & Plasma Welding & Cutting*		
	1	Describe the science of welding/cutting processes	S	
	2	Identify safety practices		
	3	Select gas welding & plasma cutting equipment		
	4	Undertand withdraw rates relationship to equip size	*M*	
	5	Cut mild steel, including pipe	*L*	
	6	Layout pipe joints and cut utilizing OA & Plasma	*L*	
	7	Perform gouging proceses	*L*	
	8	Analyze the cause of distortion & how to correct	*L*	
	9	Explain processes of machine cutting		
			L	
	67	*Production processes*		
	1	Select welding process for specific application		
	2	Identify time saving techniques for production work		
		Jigs & fixtures		
		mulitple macine operations		
		stops & guides		
	3	Anticipate distortion from welding processes		
	4	Read metal working plans and prints	*ML*	
	5	Calculate metal costs	*LM*	
	6	Determine welding costs	*ML*	

Rating	No.	Item	Code
3 2 1 0	**68**	***Project Selection & Working Drawings***	
3 2 1 0	1	Select potential project for construction	
3 2 1 0	2	Evaluate existing designs	C
3 2 1 0	3	Develop working drawings of project tio include:	
3 2 1 0		Measurements	L
3 2 1 0		Material selection	L
3 2 1 0		Exploded veiws necessary	L
3 2 1 0		Multiple views	L
3 2 1 0		Create bill of materials	L
3 2 1 0			
3 2 1 0	**69**	***Project Construction***	
3 2 1 0	1	Develop plan of action for project	C
3 2 1 0	2	Determine material needs	M
3 2 1 0	3	Evaluate sources of material for most economic	M
3 2 1 0	4	Construct project following safety procedures	L
3 2 1 0	5	Utilize time saving techniques to increase efficiency	L
3 2 1 0	6	Utilize distortion methods	L
3 2 1 0	7	Write final report on project to include	
3 2 1 0		Description of features	E
3 2 1 0		Safety Considerations	E
3 2 1 0		Bill of materials	M
3 2 1 0		Skills utilized in construction	E
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3 2 1 0			
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Rating	No.	Item	Code
3 2 1 0	**70**	***FFA & SAE***	
3 2 1 0	1	Evaluate and compare different types of SAE L2A	
3 2 1 0	2	Select SAE best souted to ind needs based on	
3 2 1 0		Interest, skill abileitie and opportunities L2B	
3 2 1 0	3	Plan an implement individual SAE L6A	
3 2 1 0	4	Use skills learned in class to enhance SAE L6B	
3 2 1 0	5	Apply skills learned in class to compete in Ag Mech CDE	
3 2 1 0	6	Record entries ina & evaluate SAE record book L6B	
3 2 1 0	7	Income, expenses, cash flow, inventories & depr. L2C	
3 2 1 0	8	Analyze and revise SAE to maximize profit L2C	
3 2 1 0	9	Examine goals and future plans for SAE L2c	
3 2 1 0	10	Use Record book to complete application for	
3 2 1 0		Greenhand, chapter or state FFA degree L2E , L9A	
3 2 1 0		District & State Proficiency awards L2E, L9A	
3 2 1 0	**71**	***Time Management***	
3 2 1 0	1	Define the following terminology L2A	C
3 2 1 0		Time Management	C
3 2 1 0		Procrastination	C
3 2 1 0		Priority	C
3 2 1 0		consequences	C
3 2 1 0		Incentive	C
3 2 1 0		Dovetail tasks	C
3 2 1 0	2	List Benefits of setting goals L10B	C
3 2 1 0	3	Id short and long-term goals L10B	C
3 2 1 0	4	Determine priorities in personal life L6A	C
3 2 1 0	5	List influences on use of time L2B	C
3 2 1 0	6	Identify time traps L2B	C
3 2 1 0	7	Idntify personal "time wasters" L2B	C
3 2 1 0	8	State principles of efficient time management L2B	C
3 2 1 0	9	Identify reasons for procrastination L2B	C
3 2 1 0	10	List ways to overcome procrastination L2B	C
3 2 1 0	11	Develop habits that save time L2B	C
3 2 1 0	12	Identify effective study habits L2B	C
3 2 1 0	**72**	***Teamwork Skills***	C
3 2 1 0	1	Participate in team tasks L7A, L7C	C
3 2 1 0	2	establish team goals L7A, L7C	C
3 2 1 0	3	establish team standards L7A, L7C	C
3 2 1 0	4	receive and give information L7A, L7C	C
3 2 1 0	5	process information L7A, L7C	C
3 2 1 0	6	plan for actionL7A, L7C	C
3 2 1 0	7	complete team task on timeL7A, L7C	C
3 2 1 0			

Rating	No.	Item	Code
	73	***Work Ethics***	
3 2 1 0	1	Interpret workplace policies related to L10A	C
3 2 1 0		Safety	C
3 2 1 0		Persoanl Hygiene	C
3 2 1 0		Personal leave & absence	C
3 2 1 0		Substance abuse	C
3 2 1 0		Sexual harassment	C
3 2 1 0	2	Apply rules, regulations& policies L10A	C
3 2 1 0		Punctuality and dependability	C
3 2 1 0		Responsibility for position	C
3 2 1 0		Accuracy	C
3 2 1 0	**74**	***Listening Skills***	C
3 2 1 0	1	Follow oral instructions L3A	C
3 2 1 0	2	Distinguish fact, opinion, and inference L2D	C
3 2 1 0	3	Interpret non verbal cues L3A	C
3 2 1 0	4	Analyze speakers point of view L3B	C
3 2 1 0	**75**	***Computer Skills***	C
3 2 1 0	1	Compose, organize & edit information w/ computer	C
3 2 1 0	2	Use presentation software L4B	C
3 2 1 0	3	Use industry specific software L4B	C
3 2 1 0	4	Access & use online services L4B	C
3 2 1 0	5	Send and receive email, voicemail & fax L4B	C
3 2 1 0	6	Use software to store, sort, query & receive data	C
3 2 1 0	**76**	***Writing***	C
3 2 1 0	1	Use correct language, organization and format L3A	C
3 2 1 0	2	Check, edit, and revise for correct information L3B	C
3 2 1 0	3	Create & present tech data in charts & graphs L4D	C
3 2 1 0	4	Maintain records, logs, lab notbooks L4D	C
3 2 1 0	5	Use style manuals or software for documentation L4B	C
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