

Name: _____

Directions:

Evaluate the student by entering the appropriate number to indicate the degree of competency achieved.

Rating Scale (0-6):

- 0 No Exposure** – no experience/knowledge in this area; program/course did not provide instruction in this area
- 1 Unsuccessful Attempt** – unable to meet knowledge or performance criteria and/or required significant assistance
- 2 Partial Demonstration** – met some of the knowledge or performance criteria with or without minor assistance
- 3 Knowledge Demonstrated** – met knowledge criteria without assistance at least once
- 4 Performance Demonstrated** – met performance criteria without assistance at least once
- 5 Repeated Demonstration** – met performance and/or knowledge criteria without assistance on multiple occasions
- 6 Mastered** – successfully applied knowledge or skills in this area to solve related problems independently

0	1	2	3	4	5	6	A. Appreciate and apply all personal and workplace safety procedures	Notes:
							1. Complete the necessary forms that would be used in an accident investigation.	
							2. Explain the information listed on an MSDS sheet furnished for a selected material stored on-site.	
							3. Demonstrate the proper selection of personal protective equipment.	
							4. Perform the required periodic inspection for a digger/derrick truck and an aerial-lift platform and complete all necessary inspection forms.	
							5. Perform a hazard assessment of a work area before beginning work.	
							6. Demonstrate the proper method of visually inspecting rubber line hose, hoods, blankets, rubber gloves and leather protectors.	
							7. Perform a job briefing.	
							8. Demonstrate proper use of tools used to ground, spike and cut a section of URD primary cable.	
							9. Demonstrate proper technique to ground, spike and cut a section of URD primary cable.	
							10. Identify the proper fire extinguisher to be used on each of the four classes of fire.	
							11. Identify the location and types of all fire extinguishers on the company premises.	
							12. Successfully complete a certified course in first aid.	
							13. Successfully complete a certified course in cardiopulmonary resuscitation.	
							14. State the international distress call.	
							15. List info needed by dispatcher in case of emergency.	
							Other:	

0	1	2	3	4	5	6	B. Demonstrate safe climbing practices	Notes:
							1. Demonstrate the proper care, maintenance and inspection of a complete set of climbing gear and tools.	
							2. Demonstrate the proper method of pole inspection.	
							3. Explain elements of pole brand and determine pole depth.	

								4. Demonstrate proper method, tools and/or equipment for climbing a defective pole.	
								5. Demonstrate basic climbing techniques.	
								6. Demonstrate climbing over a cross arm.	
								7. Identify common knots.	
								8. Demonstrate the proper use of a hand line for sending tools and material.	
								9. Demonstrate framing different types of pole structures.	
								10. Demonstrate the proper procedure for pole top and bucket rescue.	
								Other:	

0	1	2	3	4	5	6	C. Frame a line pole	Notes:
							1. Demonstrate recognition and use of pole hardware and material.	
							2. Demonstrate framing poles on the ground.	
							3. Demonstrate proper equipment grounding, system grounding and pole grounds.	
							4. Demonstrate installing guy assemblies.	
							5. Determine the proper guy lead using Pythagorean Theorem.	
							6. Demonstrate the proper installation of cross arms.	
							7. Demonstrate proper installation of insulators.	
							8. Demonstrate proper installation of and tying in of conductors.	
							9. Identify basic staking principles.	
							Other:	

0	1	2	3	4	5	6	D. Operate equipment consistent with industry and safety standards	Notes:
							1. Perform all DOT and OSHA required inspections on vehicles and equipment.	
							2. Successfully complete the requirements for a class A commercial driver's license.	
							3. Identify and inspect the major components of vehicle and equipment hydraulic systems.	
							4. Demonstrate proper traffic control and work area safety.	
							5. Identify the major working parts of a selected digger/derrick.	
							6. Demonstrate the proper positioning of outriggers on both paved and unpaved surfaces for digger/derrick/aerial devices.	
							7. Locate and explain a lift capacity chart on a derrick boom.	
							8. Determine the travel height, horizontal reach and boom load limitations, from the nameplate data given on a selected digger/derrick and aerial device.	

								9. Demonstrate proper use of the crane (derrick) and hoist hand signals illustrated in the APPA safety manual, pg. 71.	
								10. Demonstrate the proper method of rigging a pole to be set using a derrick.	
								11. Locate the proper lifting points on the equipment listed below:	
								oil circuit reclosure	
								pole type transformer	
								pad mount transformer	
								Voltage regulator	
								pole mount transformer	
								12. Conduct a pre-use inspection of a backhoe or trencher.	
								13. Identify the major working parts of a backhoe or trencher.	
								14. Demonstrate the use of trenchers and backhoes in different situations.	
								15. Determine the date of the last dielectric test performed on selected digger/derrick/aerial platforms.	
								16. Perform an operational inspection of an aerial platform.	
								17. Inspect, position and operate the winch, jib, and lifting attachments on a material handling aerial platform.	
								18. Locate and identify the over ride emergency lower controls on selected digger/derrick/aerial platforms.	
								19. Demonstrate the operation of the lower emergency controls on selected digger/derrick/aerial platforms.	
								Other:	

0	1	2	3	4	5	6	E. Set and replace poles	Notes:
							1. Conduct a pre-work "tailgate" discussion for a selected job.	
							2. Select the appropriate warning devices to block a lane of traffic or barricade a worksite.	
							3. Demonstrate the ability to safely maneuver a digger/derrick boom or aerial platform between conductors and over a roadway.	
							4. Demonstrate the proper methods of truck grounding listed below: main-line neutral temporary screw-in ground rod.	
							5. Demonstrate the proper method of handling and controlling the butt of a pole being maneuvered and set in an energized line.	
							6. Demonstrate the proper method of securing the butt of a pole to be pulled that may be top heavy.	
							7. Demonstrate techniques to manually set poles.	
							Other:	

0	1	2	3	4	5	6	F. Conduct transformer wiring and connections	Notes:
							1. Explain ohms law and basic electricity concepts.	

								2. Identify components of a transformer.	
								3. Demonstrate proper framing specifications for transformer installations.	
								4. Identify and demonstrate proper single phase transformer connections.	
								5. Identify and demonstrate proper three phase transformer connections.	
								6. Demonstrate proper equipment grounding techniques.	
								7. Demonstrate how to properly inspect energization and isolation transformers.	
								8. Demonstrate the proper over-current and over-voltage equipment needed for protection of transformers.	
								9. Demonstrate assembly and installation of different types of meter loops.	
								Other:	

0	1	2	3	4	5	6	G. Conduct metering and service connections	Notes:
							1. Demonstrate the proper method used to install a meter.	
							2. Demonstrate sizing of service conductors.	
							3. Demonstrate proper service conductor installation.	
							4. Demonstrate knowledge of meter, meter application and meter reading.	
							5. Demonstrate knowledge of instrument metering.	
							Other:	

0	1	2	3	4	5	6	H. Install and repair conductors	Notes:
							1. Demonstrate knowledge and techniques for stringing conductors.	
							2. Demonstrate proper use of strap hoists for conductor installation and repair.	
							3. Demonstrate proper procedures for deadending and splicing of conductors.	
							4. Select the tools and materials needed to install an ACSR single sleeve full tension compression splice.	
							5. Select the tools and materials needed to install an ACSR automatic tension splice.	
							6. Demonstrate the proper method of installing an ACSR single sleeve full tension compression splice.	
							7. Inspect and identify any installation defect from five selected previously installed full tension splices.	
							8. Demonstrate the proper method of installing the connectors listed below:	
							tap connector	
							split bolt	
							pin terminal	
							straight lug	
							9. Demonstrate the proper method of tying and untying conductors.	

								10. Demonstrate proper grounding practices.	
								11. Demonstrate the proper method of sagging a line with sag charts and tables.	
								Other:	

0	1	2	3	4	5	6	I. Demonstrate proper rubber gloving methods	
							1. Demonstrate the proper use and care of gloves and sleeves.	
							2. Demonstrate the proper use and care of hard shell cover applications.	
							3. Demonstrate the proper use and care of line hoses and rubber blankets.	
							4. Demonstrate the proper use and care of hot line tools.	
							5. Demonstrate knowledge of lockout/tagout procedures.	
							Other:	

0	1	2	3	4	5	6	J. Install and troubleshoot URD	
							1. Identify the five components of a selected piece of underground primary cable.	
							2. Identify the main components of a 200 amp loadbreak elbow and a non-loadbreak elbow.	
							3. Identify hazards and safeguards associated with trenching and excavating.	
							4. Identify the type of system at a selected site (radial or loop).	
							5. Demonstrate the proper method of marking primary cable in a three phase switching cabinet, pad mount enclosure, and loop feed systems.	
							6. Identify the following transformers feed through padmount radial padmount transclosure.	
							7. Identify the major transformer components of a padmount.	
							8. Demonstrate the proper procedure to de-energize the secondary of a bayonet equipped padmount transformer.	
							9. Demonstrate the proper procedure to completely de-energize a padmount transformer.	
							10. Interpret construction specifications.	
							11. Demonstrate the proper installation of overvoltage and overcurrent for underground cables.	
							12. Demonstrate trouble shooting and fault locating of underground cable.	
							Other:	

0	1	2	3	4	5	6	K. Coordinate system fusing components	Notes:
							1. Interpret a single line diagram.	
							2. Interpret a time-current curve.	
							3. Identify the five main components of a single element fuse link.	

								4. Identify the main components of a lighting arresstor.	
								5. Demonstrate proper procedure to install lighting arresstor.	
								6. Identify the main components of an enclosed fuse cutout.	
								7. Identify the main components of an open fuse cutout.	
								8. Identify the main components of an open-link fuse cutout.	
								9. Identify the main components of an oil circuit recloser and sectionalizer.	
								10. Demonstrate the operation of a single phase recloser and sectionalizer.	
								11. Place a single phase recloser in the non reclosing mode.	
								12. Draw a single line diagram that illustrates a line with a recloser and three branch sectionalizers and a fuse.	
								Other:	

0	1	2	3	4	5	6	L. Inspect and service substations and voltage regulators	Notes:
							1. Identify the regulator bushings listed below: load	
							source	
							common	
							2. Demonstrate the proper procedure to energize and test the operation of a voltage regulator in the field.	
							3. Demonstrate two methods used to determine that a voltage regulator is in the neutral position.	
							4. Demonstrate the proper method used to place a voltage regulator in service.	
							5. Demonstrate the proper method used to short and ground the bushings on a capacitor and to energize a capacitor.	
							6. Select the proper protective equipment to be worn when working with capacitors that have not been grounded.	
							7. Interpret a single line diagram of an existing selected substation.	
							8. Explain substation grounding.	
							9. Explain lighting protection of substations.	
							10. Explain how to conduct substation inspection.	
							Other:	

0	1	2	3	4	5	6	M. Demonstrate leadership skills in the classroom, industry, and society	Notes:
							1. Demonstrate an understanding of SkillsUSA/VICA, its structure, and activities.	
							2. Demonstrate an understanding of one's personal values.	
							3. Perform tasks related to effective personal management skills.	
							4. Demonstrate interpersonal skills.	
							5. Demonstrate etiquette and courtesy.	
							6. Demonstrate effectiveness in oral and written communications.	
							7. Develop and maintain a code of professional ethics.	
							8. Maintain good professional appearance.	
							9. Perform basic tasks related to securing and terminating employment.	
							10. Perform basic parliamentary procedures in group meeting.	
							Other:	