Practice safe brick and masonry techniques according to industry standards as set forth by the SkillsUSA technical committee. Tasks Instructions: Each number to the right refers to a single student/candidate (1-10). Place a check (/) in the respective column for the appropriate student/candidate number (1-10) if the skills listed below are observed as stated. Leave blank if 1 2 3 3 4 5 6 7 8 9 10 not observed. Student/candidate will only get credit for the skills they have demonstrated. Choose proper tools and materials Lay up masonry products in an accurate and professional manner Load and unload materials as directed Clean up work areas properly and thoroughly Safety and infection control are adhered to during all aspects of this task. The student completed task within the time limited. Points earned Total possible points (6) It Model safety standards according to and following OSHA regulations. Tasks Instructions: 1	Masonry										
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Demonstrate awareness of potential hazards when performing all tasks Accept responsibility for the safety of other workers											
Accept responsibility for the safety of other workers		1	2	3	4	5	6	7	8	9	10
	Demonstrate awareness of potential hazards when performing all tasks										
Keep work areas neat and organized	Accept responsibility for the safety of other workers										
<u></u>	Keep work areas neat and organized										

Wear proper safety equipment and clothing										
Follow prescribed OSHA standards										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (7)										
III. Use hand tools and equipment according to industry standards as set for	rth b	y th	e Sk	illsU	ISA t	tech	nica	I		
committee.										
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
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Cut masonry safely around others										
Place mortar cautiously in the mortar pan or on the mortar board										
Keep tools out of the paths of other people working on the job										
Handle tools properly										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (7)										
IV. Identify and use basic hand tools used in brick masonry according to inc	lustr	y sta	anda	rds	as s	et fo	rth I	by th	е	
SkillsUSA technical committee.										
Tasks Instructions:										
	_		_		_		_		_	40
	1	2	3	4	5	6	7	8	9	10
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Demonstrate an understanding of the specific uses of each hand tool										
Practice the safety rules for each hand tool										
Identify quality tools										
Store and care for hand tools properly										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (6)										
			I	ı	ı	1			1	
V. Use measuring tools according to industry standards as set forth by the S	Skills	SUSA	A tec	hnic	cal c	omn	nitte	e.		
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
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Use and maintain a modular ruler and a spacing ruler										
Set and use a story pole										
Demonstrate power tool identification and usage										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (5)										
				l						
VI. Identify and use brick masonry power tools according to industry standa	rds a	as se	et fo	rth t	y th	e Sk	illsU	JSA		
technical committee.										
Tasks Instructions:										
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VIII. Use masonry levels according to industry standards as set forth by the Tasks Instructions:	SKIII	ISUS	oA te	ecnn	ıcaı	com	mitt	ee.		
VIII Hoo macony, lovely according to indicator, standards as act footh but the	Clein	lal io	· A +-	ab	incl	00				
Total possible points (6)										
Points earned										
The student completed task within the time limited.										
Safety and infection control are adhered to during all aspects of this task.										
Inspect, assemble and disassemble rigging and scaffolding properly										
Store, maintain and repair all equipment										
Correctly use each piece of equipment										
Identify equipment generally used in brick masonry										
	1	2	3	4	5	6	7	8	9	10
Tasks Instructions:										
VII. Use equipment according to industry standards as set forth by the Skills	USA	A tec	hnic	cal c	omn	nitte	e.			
Total possible points (6)										
Points earned										
The student completed task within the time limited.										
Safety and infection control are adhered to during all aspects of this task.										
Set up power tools correctly										
Maintain power tools										
Practice the safety rules for each power tool										
Demonstrate the specific uses of each power tool										

Use a 24 inch level for plumbing and leveling										
Use a 48 inch level for plumbing and leveling										
Demonstrate proper maintenance and care for the levels										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (5)										
		1	Ц				ı			
IX. Possess an appropriate knowledge of the fundamental theories in brick	mas	onry								
Tasks Instructions:										
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Identify terms used in brick masonry										
Incorporate trade terminology into oral communication relating to masonry										
tasks										
Demonstrate knowledge of basic addition, subtraction, multiplication, and										
division using whole numbers										
Calculate proportions to mix masonry materials according to specifications										
Compute percentages to estimate and determine material requirements, work										
performed, schedules and costs										
Express answers relative to the trade										
Read basic drawings and sketches and understand the information contained										
in the blueprints provided										
Explain the meanings of basic architectural symbols and abbreviations on										
blueprints										
Use a builder's level relative to a benchmark										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										

Points earned										
Total possible points (12)										
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X. Use materials and methods according to industry standards as set forth to	oy th	e Sk	illsl	JSA	tech	nica	l co	mmi	ttee.	1
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
Arrange masonry materials for efficient use										
Place mortar pans properly										
Temper or shake-up mortar with proper shovels										
Utilize hod-carrying and arrange masonry materials for efficient use										
Place mortar pans properly										
Temper or shake-up mortar with proper shovels										
Manipulate a trowel properly										
Cut and roll, and cut and cup mortar to load trowel properly										
Spread and furrow mortar properly										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (11)										
XI. Prepare mortar according to industry standards as set forth by the Skills	USA	tec	hnic	al co	omm	ittee) .			
Tasks Instructions:										
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	1	2	3	4	5	6	7	8	9	10
Follow correct safety practices when mixing mortar										

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Use a tool rake, weather, V-jointer, grapevine and struck joints										
Perform cut/rough joints										
Tuck-point a wall properly										
Brush and touch up a wall										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (7)										
	•	•	•	•	•	•	•	•	•	•
XIV. Clean brick and structural tile according to industry standards as set for	rth I	y th	e SI	killsl	JSA	tech	nnica	al		
committee.										
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
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Follow correct procedures for keeping masonry work clean										
Follow correct procedures in cleaning brick and structural tile										
Follow correct procedures for rubbing and tuck pointing concrete block and										
slag block										
Clean and tuck-point stonework										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (6)										
	•	•	•	•	•	•		•	•	•
XV. Lay brick and blocks according to industry standards as set forth by the	Ski	llsUS	SA te	echn	ical	com	mit	tee.		
Tasks Instructions:										

	1	2	3	4	5	6	7	8	9	10
Lay a straight brick wall at the rate of 75-100 bricks per hour										
Attach a line block and line pins to a wall										
Set a trig										
Lay brick to a line while holding bond										
Throw a full head joint										
Lay a straight block wall and spread bed joints and throw on full head joints										
for block units										
Lay block units to the line										
Lay out a wall in preparation for building a brick corner										
Construct a rack-back lead										
Construct an outside and inside corner lead (+ or - 11/16 inch)										
Lay out a wall in preparation for building a block corner										
Install wire reinforcements in bed joints										
Build a block corner to a specified height										
Lay a brick veneer wall and determine the type of brick to be used										
Bond the wall and scale each course										
Lay brick in mortar to scale										
Secure wall with ties at desired intervals										
Point and joint the wall										
Lay brick masonry cavity wall and determine the width of the cavity and type										
of brick to be used										
Construct components of the wall in proper sequence										
Spread mortar to achieve the required bond without getting mortar into the										
cavity										
Install wall ties that join the exterior and interior wythes together into a single										
cavity wass										
Install flashings and construct weep holes in a manner that permits effective										
drainage of moisture from cavity										

Construct and maintain the cavity during construction so that the air space										
provides insulation										
Determine the type of brick to use to lay a single Wythe brick (load bearing										
wall using units that are a minimum of 5 inches wide)										
Bond the wall and scale each course										
Lay brick in mortar to scale and secure wall with ties at desired intervals										
Point and joint the wall										
Determine the type of brick and block to be used to lay a brick and block										
composite wall										
Bond the wall and scale each course										
Lay brick and block mortar to scale and secure wall ties at desired intervals										
Point and joint the wall										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (34)										
XVI. Construct fireplaces and chimneys according to industry standards as	set f	orth	by t	he S	kills	USA	\ tec	hnic	al	
committee.										
Tasks Instructions:										
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	1	2	3	4	5	6	7	8	9	10
Identify various components of a fireplace										
Build a fireplace according to plans provided by the evaluator										
Identify various components of a chimney										
Build a one-flute chimney form given plans										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										

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Points earned										
Total possible points (6)										
XVII. Construct arches, columns and piers according to industry standards a	as se	et fo	rth b	y th	e Sk	illsU	ISA ¹	tech	nica	
committee.										
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
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Demonstrate knowledge of architectural features including aesthetic trims,										
course designs, period and antique applications										
Construct an arch using given plans										
Construct a column using given plans										
Construct a pier using given plans										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (6)										
XVIII. Lay floors, pavers and stairs according to industry standards as set for	rth I	y th	e Sł	killsl	JSA	tech	nica	al		
committee.										
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
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Lay floors according to given plans										
Lay pavers according to given plans										
Lay stairs according to given plans										
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Demonstrate proper concrete work										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (6)										
XIX. Prepare footers according to industry standards as set forth by the Skil	IsUS	SA te	echn	ical	com	mitt	ee.			
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
Lay out footings properly										
Place rebar properly										
Place and rough finish concrete properly										
Safety and infection control are adhered to during all aspects of this task.										
The student completed task within the time limited.										
Points earned										
Total possible points (5)										
XX. Lay out and establish foundations according to industry standards as so committee.	et fo	rth b	y th	e Sk	illsU	ISA 1	tech	nica	I	
Tasks Instructions:										
	1	2	3	4	5	6	7	8	9	10
Lay out and establish grades for foundation										
Establish corners and lay out concrete block according to a specific bonding										
plan										

Lay foundation wall to joist and brick shelf height					
Waterproof foundation wall					
Install flashing, anchor bolts, termite shield and weep holes					
Safety and infection control are adhered to during all aspects of this task.					
The student completed task within the time limited.					
Points earned					
Total possible points (7)					
Total points earned for all sections (A)					
Total possible points for all sections (B) 159					
Student/candidate score (divide A/B)					