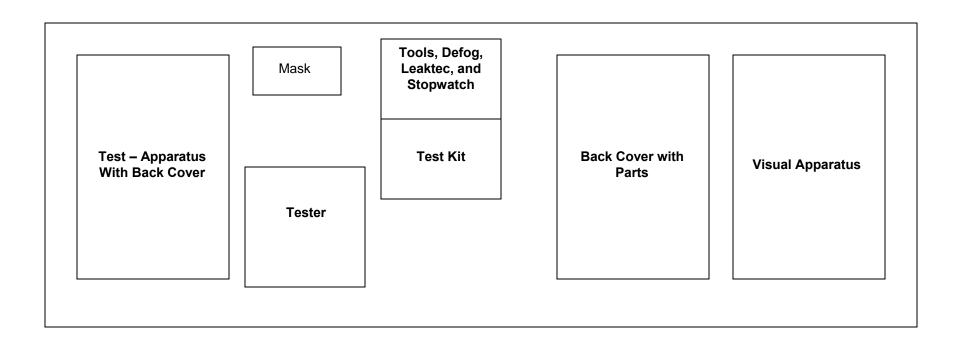
Table Layout for BG-4 Contest2019 Contest Year



BG-4 BENCH CONTESTANT _____ WORKING TIME _____ MIN. ____ SEC.

	VISUAL APPARATUS CHECKS		1	HAND TIGHT CONNECTIONS	
✓	Check if ok			Cap on Drain Valve	
	FRAME/HARNESS ASSEMBLY			Drain Valve to Breathing Bag	
	· Switchbox/Sentinel/Sealing Rings/O2 Reg/Anti-vibe			Minimum Valve to Breathing Bag	
	· Backcover			Minimum Valve to O2 Supply Line	
	BREATHING BAG			Cylinder Connection	
	· Sealing Surfaces			Regenerative Canister Connections	
	· Manipulate or Massage (pliability)			Relief Valve to Regenerative Canister	
	· Minimum Valve & Drain Valve			Crossover Hose to Switchbox and Relief Valve	
	· Lever			Cooler to Breathing Bag	
	· Springs			Distribution Hose	
	CYLINDER TEST			Breathing Hoses	
	· Hydrostatic Test Date			Hose Adapter on RZ-25 or Test-It 6100	
	Cylinder Pressure on Gauge		TEST APPARATUS		
	Pressure Rating on Cylinder	✓	Check	k if ok	
	REGENERATIVE CANISTER		ZERO ADJUSTMENT ON TESTER		
	Check for Defects		LOW PRESSURE WARNING TEST		
	· Sealing Surfaces		INHALATION VALVE TEST		
	• Expiration Date or Screens/Filler Mats/Seal		EXHALATION VALVE TEST		
	Seal Strap with Tension Spring Hook		DRAIN VALVE TEST		
	RELIEF VALVE		LEAK TEST with POSITIVE PRESSURE		
	· Check for Defects		RELIEF VALVE TEST		
	· Valve/O-Ring				
	COOLER		State Opening Pressure HIGH PRESSURE LEAK TEST		
	· Check for Defects		CONSTANT METERING VALVE TEST		
	Sealing Surfaces HOSES		State Final Reading		
			MINIMUM VALVE TEST		
	· Sealing Edges		State Opening Pressure		
	Stretching of Hose for Pliability		BYPASS VALVE TEST		
	COUPLING		LOW PRESSURE WARNING TEST		
	· Sealing Surfaces		•	· State Warning Reading	
	· Valve Discs		BATT	BATTERY TEST	
	FACE PIECE TEST	VI	С	VISUAL APPARATUS	
	· Head Strap Assembly				
	· Mask Body				
	· Sealing Edges				
	· Speaking Diaphragm				
	· Lens				
	· Wiper			TEST APPARATUS	
	· Defog Mask (Simulate)				

BG-4 VISUAL APPARATUS (BREAKDOWN)

Back Cover Removed Hoses – Disassembled Connector Removed Inhalation – Exhalation Valves Removed Cooler and Cooler Cap Removed Relief Valve (Intact) Lever Arm Canister Springs Breathing Bag O2 Bottle Retainer Clip for Minimum Valve Minimum Valve Drain Valve (Intact) Switchbox (Unlatched with Crossover line off and still attached to cables)

BG-4 TOOL KIT

7mm – Open End/Box End 8mm – 10mm Combination 10mm – Open End 12mm – 14mm Combination 17mm – 19mm Combination 10mm – 11mm Offset Box Flat Screwdriver Phillips Screwdriver Spanner Wrench 2mm – Allen Wrench 15mm – Open End Dow-Corning 111 TORX – T-20 Reaction Ring Tool

STATEMENT TO BENCH CONTESTANT

The bench participant will be provided with two BG-4 apparatus (one disassembled, one assembled), an RZ-25, RZ-7000 tester, or Test-It 6100 tester, a stopwatch, defogging solution, leak detector fluid, test kit, and tool kit. Only the tools and fluid provided will be used for testing and assembly of the apparatus.

The work at the bench at the bench will consist of:

- 1. A visual examination of a disassembled BG-4 and the proper assembly and preparation for use in rescue work. This will include correcting any predetermined problem(s) so that the apparatus is in proper working order. Simulating defogging of the facepiece lens will be done as a part of the visual examination. This visual examination, correcting predetermined problem(s), and proper assembly can be done at any time allowed for the working of the problem.
- 2. Test the assembled BG-4 apparatus with a tester, and correct the predetermined problem(s) so that the apparatus is in proper working condition. Except for removing the sealing cap from the coupling on the breathing hoses, and removing the cover shell, the assembled BG-4 apparatus cannot be disassembled to look for problems, until the hoses are attached to the tester, and the apparatus fails a test. When testing is completed on the assembled BG-4 apparatus, the hoses shall be removed from the tester, connected to the facepiece, and the back cover installed. This shall be done before the clock is stopped.

When an unplanned deficiency is encountered in the apparatus, the participant will be notified by the judge(s) that the deficiency is not part of the problem. The judge will stop the clock and any time used to correct the deficiency will not be charged to the working time.

A maximum of 30 minutes will be allowed to complete the problem. The judge will tell you when 25 minutes has passed. At the completion of the problem, the judge(s) and the participant will note the working time of the problem with the official timekeeper. Work done after the clock is stopped will not be recognized.