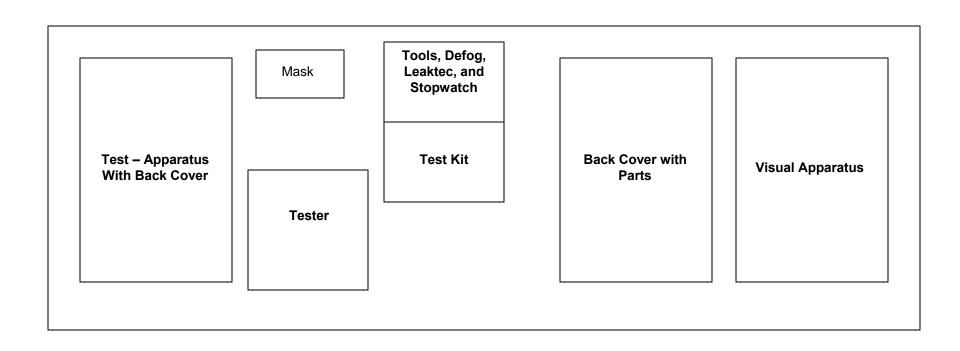
Table Layout for BG-4 Contest 2018 Contest Year



BG-4 BENCH CONTESTANT	WORKING TIME	MIN	SEC

	VISUAL APPARATUS CHECKS		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 Switchbox to 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 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		
			LEAK TEST with POSITIVE PRESSURE		
			RELIEF VALVE TEST		
	· Valve/O-Ring		· State Opening Pressure		
	COOLER		HIGH PRESSURE LEAK TEST		
	· Check for Defects		CONSTANT METERING VALVE TEST State Final Reading		
	· Sealing Surfaces				
	HOSES	MINIMUM VALVE TEST			
	· Sealing Edges		State Opening Pressure BYPASS VALVE TEST LOW PRESSURE WARNING TEST State Warning Reading BATTERY TEST		
	· Stretching of Hose for Pliability				
	COUPLING				
	· Sealing Surfaces				
	· Valve Discs				
	FACE PIECE TEST	VI	C VISUAL APPARATUS		
	· Head Strap Assembly	+	+ +		
	· Mask Body		+ +		
	· Sealing Edges		+ +		
	· Sealing Edges · Speaking Diaphragm		+ +		
	· Speaking Diaphragin · Lens		+ +		
			TEST APPARATUS		
	· Wiper Defog Mask (Simulate)		+ +		
	· 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 but still attached to lines)

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.