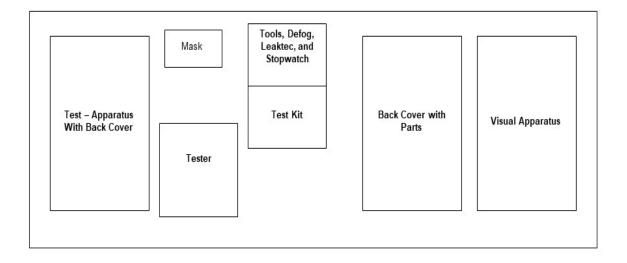
Table Layout for BG-4 Contest



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, 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 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.

VCH CONTESTANT	•	WORKING TIME	_MIN	SEC.

VISUAL APPARATUS CHECKS		TEST APPARATUS WRITTEN RECORD				
Check if at						
FRAME/HARNESS ASSEMBLY		Check if	Check if ak			
BREATHING BAG		LOW	LOW PRESSURE WARNING TEST 1.4 MBAR M			
CYLINDER TEST		INHA	INHALATION VALVE TEST 10 MBAR +			
REGENERATIVE CANISTER		EXHA	EXHALATION VALVE TEST 10 MBAR -			
SIMULATE ADDING DRAGERSORB		DRAI	DRAIN VALVE TEST 10 MBAR			
RELIEF VALVE		LEAK	LEAK TEST with POSITIVE PRESSURE 1 MBAR IN 60 SEC			
COOLER		RELIEF VALVE TEST				
SIMULATE ADDING ICE			State Opening Pressure	2 TO 5 MBAR		
HOSES		HIGH	PRESSURE LEAK TEST	OPEN CYL. ICON		
COUPLING		CONS	TANT METERING VALVE TEST			
FACE PIECE TEST			· State Final Reading 1.5 TO 1.9 L/MIN			
SIMULATE DEFOGGING MASK		MINIMUM VALVE TEST				
		· State Opening Pressure 0.1 TO 2.5 MBAR				
CONNECTIONS CONNECTED OR GOOD		BYPASS VALVE TEST				
· Cap on Drain Valve		ALTERNATE RELIEF VALVE TEST 2 TO 5 MBAR				
Drain Valve to Breathing Bag		LOW	PRESSURE WARNING TEST			
· Minimum Valve to Breathing Bag			State Warning Reading	APPROX. 700 PSI		
Minimum Valve to O2 Supply Line		BATT	ERY TEST	BATT FULL/ ICON		
Cylinder Connection		READY FOR USE				
Regenerative Canister Connections		DATE				
Relief Valve to Regenerative Canister		SERIAL NUMBER				
Crossover Hose Switchbox and Relief Valve		SIGNATURE				
Cooler to Breathing Bag		CYLINDER READING				
Distribution Hose						
Breathing Hoses						
Hose Adapter on RZ-25 or Test-It 6100		·				
· 						
		ZERO	ZERO TESTER PRIOR TO TESTING			
	VI	С	VISUAL APPARA	ATUS		
-						
-						
-						
			TEST APPARATUS			
<u> </u>						