# Certified AirMask Repair Education Class

## 1 day G1 Upgrade Class

### Introduction
- Instructor and student welcome and introductions
- Review of G1 C.A.R.E. Program
- Course administration
- Layout of G1 C.A.R.E. manual

### SCBA Theory
- Theory of operation
- Design concepts
- Function of sub-assemblies

### MSA G1 SCBA
- G1 SCBA overview
- Sub-assemblies

#### Facepiece
- Disassembly and inspection process
- Reassembly and troubleshooting

#### Regulator
- Regulator Overview
- Theory of operation
- Disassembly, inspection and function of specific parts
- Fork height check and adjustments

#### Pressure Reducer
- Regulator overview
- Theory of operation and flow scheme
- Disassembly and inspection process
- Reassembly and trouble shooting
- Making adjustments

#### Primary alarm
- Alarm overview
- Theory of operation and air flow scheme
- NIOSH and NFPA requirements
- Disassembly and inspection of key components
- Reassembly and trouble shooting

#### Cylinder Valve
- Current design
- Quick connects or CGA threaded
- Disassembly and trouble shooting
- Burst Disc and Safety plug
- Reassembly and critical torques values

#### Accessories
- Universal Rescue Connection Adapter
- HUD Heads up Display

#### Performance Testing
- Overview of Posi3 USB
- SCBA flow test set up
- Flow test and adjustments

### Course Summary
- **Written open book/open note evaluation**
- Complete course evaluation final administration and wrap up