# Certified AirMask Repair Education Class

## 1.5 day Initial Class

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

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

### MSA Air Masks
- Current design SCBA overview
- SCBA sub-assemblies

### Facepieces
- Overview of current models
- Disassembly and inspection process
- Reassembly and troubleshooting

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

#### 1st Stage Regulator
- Regulator overview
- Theory of operation and flow scheme
- Disassembly and inspection process
- Reassembly and trouble shooting of 1st stage
- 1st stage regulator adjustment
- Critical torque values, application of adhesives, lubrication and sealants

### Audi-larm 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
- Disassembly and trouble shooting
- Burst Disc and Safety plug
- Reassembly and critical torques values

### MSA SCBA accessories
- Universal rescue connection review
- HUD Heads up Display for NFPA 1981 2002 (if applicable)

#### Performance testing (Day 2)
- Overview of Posi-Chek 3
- SCBA flow test hardware set up
- Flow test and adjustments
- Complete SCBA test based on NFPA requirements

#### Course Summary (Day 2)
- Written open book/open note evaluation
- Complete course evaluation final administration and wrap up