

### **Cylinder Inspection Course PT1**

**Day 1 0900-1300hrs, 1400-1700hrs**

**Location - Classroom**

**Topics Covered:-**

- Gas laws
- Workshop practices
- Valves
- Safety
- Cylinder Visual Inspection Techniques

### **Cylinder Inspection Course PT1**

**Day 2 0900-1300hrs, 1400-1700hrs**

**Location - Workshop**

**Workshop Practice Covered**

- Cylinder Inspection demonstration
- Cylinders that should pass
- Cylinders that fail
- Borderline decision making
- Use of thread microscope
- Cylinder thread inspection and use of thread gauge
- Use of pit gauge
- Use of pit probe
- Checking for bulging
- Suspicious marks
- Folds
- Valleys
- Thread damage
- Crack inspection techniques
- Valve strip down and rebuild
- Valve thread inspection and gauging
- Identifying alloy types
- Student inspection practice
- EXAM

### **Cylinder Inspection Course PT2**

**Day 3 0900-1300hrs, 1400-1700hrs**

**Location - Classroom**

**Topics Covered:-**

- **Metallurgy – understanding cylinder construction and testing**
- **Advanced Cylinder inspection techniques**
- **Fire damage – testing**
- **Corrosion – causes**
- **Retester marking**
- **Non standard cylinders, fiber wrap, SCBA etc**
- **Additional legal requirements for Commercial storage cylinders**
- **NDT Inspection**
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### **Cylinder Inspection Course PT2**

**Day 4 0900-1300hrs, 1400-1700hrs**

**Location - Workshop**

- Hydrostatic testing cylinders demonstration
- NDT testing cylinders demonstration (manual equipment)
- NDT testing cylinders demonstration (computer automated decision making)
- Student hydrostatic and NDT practice
- EXAM