



**Distribution And Teaching Boissinot Inc.**

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**VISUAL CYLINDER INSPECTION CLASS FROM PSI/PCI (Professional Scuba/Cylinder Inspectors)**

**The general objective of the training**

At the end of this course, the candidate will be able to identify the main problems associated with the pressurized gas cylinders, mainly the SCUBA cylinders and the SCBA - (cylinder used on fire respiratory systems). He will be aware of the laws and government standards relating to visual inspection and filling and will be able to perform a formal and informal visual inspection of a cylinder, according to the 18-step PSI/PCI protocol. The applicant will comply with Transport Canada's dangerous goods handling guidelines.

**Specific objectives of the training**

- 1- Know the dangers and risks associated with pressurized gas cylinders.
  - a) Know safe methods for handling these cylinders.
- 2- Know the different types of pressurized gas cylinders (SCUBA and SCBA)
  - a) Know the materials used to make these cylinders
  - b) Know the limits of these cylinders.
- 3- Know the different types of corrosions or damage encountered.
  - a) Know the damage that is caused by this corrosion or damage.
  - b) Know techniques to clean corrosion or repair damage in cylinders.
  - c) Know the limits prescribed by law and the standards for accepting, discarding or condemning a cylinder.
- 4- Know the cylinder marking codes required by Transport Canada's Dangerous Materials Transportation Act
  - a) Know what these codes mean.
  - b) Know the cylinder codes that are to be monitored.

- 5- Know the types of valves used on SCUBA and SCBA cylinders
  - a) Know the inspection areas that the technician can cover
  
- 6- Know the inspections and tests that pressurized gas cylinders must undergo.
  - a) Know and apply the informal inspection to be done at the time of filling
  - b) Know and apply formal visual inspection
  - c) Know the hydrostatic test and where it fits into the visual inspection.
  - d) Know the protocol and apply the 18-step PSI/PCI inspection protocol

## THE SERVICE

Since March 1973, Paul Boissinot has been a Visual Inspection Technician. Since 1999 VCI instructor and since 2002 PSI/PCI. PSI/PCI have a standardized program and a network of approved technicians for visual inspection of breathable compressed air cylinders. PSI/PCI is an organization recognized by cylinder manufacturers.

Each technician must complete a training session, lasting a minimum of eight hours. All successful candidates will successfully learn how to inspect cylinders as per PSI/PCI 18 step protocol: "Visual Inspection Technician" PSI/PCI and will receive a PSI/PCI certificate.

The certified technician uses technics that comply with the code of ethics attached to the visual inspection program. He must be renewed every 36 months (3) years as specified by Transport Canada ([www.tc.gc.ca/tmd](http://www.tc.gc.ca/tmd)) plain language laws part 6), this update can be made by videoconference. Update documents are also part of the program.

## A VISUAL INSPECTION

The visual inspection of breathable compressed air cylinder is carried out annually to extend the operating time of the cylinder and protect the lives of those who handle them. It is already established in Quebec that all air stations will refuse to fill a cylinder that has not undergone a recognized visual inspection in the last twelve months. Consumers should therefore be wary of a store or facility that does not value this aspect of safety.

## **PROGRAM GOAL**

Increase the safety of responders, e.g. dive shop, fire department, air station, fire equipment distributor.

## **THE OVERALL OBJECTIVE OF THE PROGRAMM**

Establish a visual inspection program and educate fire service workers about the maintenance of breathable compressed air cylinders. Ensure that an informal inspection is done at the time of filling (90% of cylinder explosions occur at filling).

## **SPECIFIC OBJECTIVES**

- 1) Train competent personnel for the fire department, dive shop, distributors or air stations, through training.
- 2) Develop a uniform work and visual inspection program that represent the target audience and stakeholders as well.
- 3) Educate air station operator and fire service workers about the need to handle and maintain breathable compressed air cylinders.

## **TARGETED CUSTOMERS**

- 1) All persons working in a fire safety department, fire equipment, distribution center, air station or dive shop.

\*SCUBA: Self Contained Underwater Breathing Apparatus

\*SCBA : Self Contained Breathing Apparatus

## **DATE OF VCI TRAINING CLASS**

On request.