

Basic Natural Gas Vehicle Training

Module 3: Storage and Delivery

Lesson 5: Filters

Lecture: 20 Minutes

Lab: 10 Minutes

Classroom Instructional Objectives:

Upon completion of this unit of instruction the student will be able to:

- Interpret and apply federal, state and local regulations that apply to high pressure filters.
- Compare and contrast oil removing and particulate filter designs.
- Explain how to replace filter elements.
- Explain how to service “serviceable” filters.
- Explain how to leak check high pressure filters.

Key Classroom Points:

- Explain the application of NFPA 52 specific to filters.
- Demonstrate the physical characteristics of in-line, and coalescing filters.
- Explain how to maintain oil removing and particulate filters.
- Stress the importance of properly mounting in-line and coalescing filters.
- Explain how to service in-line and coalescing filters.
- Demonstrate how to replace in-line and coalescing filters.

Lab Skill Objectives:

Upon completion of this unit of instruction the student will be able to:

- Identify oil removing and particulate filters.
- Demonstrate how to replace filter elements.
- Demonstrate how to service “serviceable” filters.
- Demonstrate how to leak check high and low pressure filters.

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Key Lab Points:

- Stress the importance of identifying high and low pressure filters.
- Explain the importance of preventative maintenance (PM).
- Demonstrate how to service oil removing and particulate filters.
- Explain the importance of leak checking after PM and new fabrication.

Classroom Materials:

- Attendance sheet
- Power Point presentation CD
- Lap-top
- Projector
- Instructor's guide
- White board marking pens
- Projection screen

Handouts:

- Power point slide materials
- Lab activity sheet 7

Instructor's notes:
