

Time:

Liquefied Petroleum Gas (LPG) Fuel Systems

Key Concepts:

Main Teaching Points:

1) Each candidate must understand LPG is heavier than air and will flow to lower parts of boat:

- difficult to remove,
- highly explosive, and
- used for fuel burning appliance on PC
- appliances must be installed in accordance with manufactures instructions.

2) Candidates examining LPG systems shall ensure:

- adequate ventilation,
- appliances are fully secured
- cylinder(s) are in a well ventilated area—recommended top of cabin / outside on main deck.
- cylinders DOT approved and valve outlets capped on spares.
- Ensure that there is adequate ventilation when a gas-burning appliance is in use with a pilot light.
- Make sure that the appliance is fully secured to guard against leakage due to unexpected movement of the vessel.
- examination criteria for gas fuel piping pg 100 PCCC Manual

Rationalization:

Notes

Quick Points

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| | Characteristics of LPG |
| | Examining LPG Systems |
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References linked to LP:

Handout-- Liquefied Petroleum Gas and Compressed Natural Gas Systems in Yachts and Small Craft -- Alpha Survey
Safe Boating Guide Pg.55
<http://www.tc.gc.ca/BoatingSafety/sbg-gsn/menu.htm>
PCCC manual Pg 99

Suggested Activities:



| <i>Method of Evaluation & Condition</i> | <i>Skill / Knowledge and Standard</i> |
|---|---|
| <u>Skill</u> | |
| Each candidate can be evaluated for these points by written examination or oral questioning during vessel examination. . | Candidates examining LPG systems shall ensure: <ul style="list-style-type: none">• adequate ventilation,• appliances are fully secured• cylinder(s) are in a well ventilated area—recommended top of cabin / outside on main deck.• cylinders DOT approved and valve outlets capped on spares.• examination criteria for gas fuel piping pg 102 PCCC Manual |
| <u>Knowledge</u> | |
| Each candidate can be evaluated for these points by written examination or oral questioning during vessel examination. . | Each candidate must understand LPG is heavier than air and will flow to lower parts of boat: <ul style="list-style-type: none">• difficult to remove,• highly explosive, and• used for fuel burning appliance on PC. Appliances must be installed in accordance with manufactures instructions. |