



Fire Protection Training

Procedures Handbook 4300

EMERGENCY MEDICAL SERVICES

TOPIC: How To Change A Resuscitator Cylinder

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: Resuscitator oxygen (O₂) cylinder, demand valve regulator, a cylinder/regulator gasket, O₂ cylinder wrench.

Behavior: The student will demonstrate the ability to change resuscitator oxygen cylinders under simulated emergency conditions.

Standard: With a minimum of 100% accuracy within one minute

MATERIALS NEEDED:

- Oxygen (O₂) cylinders
- Resuscitator regulator
- Several regulator gaskets
- O₂ cylinder wrench
- Stop watch
- Score sheets

REFERENCES:

- Manufacturer's Operational Manual

PREPARATION:

Personnel must be able to change O₂ cylinders under the controlled, unhurried environment of the fire station and under the high stress conditions encountered in the field.



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HOW TO CHANGE A
RESUSCITATOR CYLINDER

OPERATIONS

KEY POINTS

- | OPERATIONS | KEY POINTS |
|---|---|
| 1. Close O2 cylinder valve | 1a. All the way
b. Using cylinder wrench if necessary (not required on new cylinders)
c. Don't over tighten |
| 2. Bleed off residual pressure in regulator | 2a. Until gauge shows no more pressure |
| 3. Loosen regulator "T" handle | 3a. Until regulator can be removed from O2 cylinder head |
| 4. Remove regulator from depleted oxygen cylinder | |
| 5. Visually check oxygen cylinder/regulator gasket | 5a. For deformity or cracks
b. Contamination:
1) Dirt
2) Oil
3) Blood
c. Permissible to check gasket in place on regulator |
| 6. Remove seal from top of full O2 cylinder | 6a. If a seal is present |
| 7. Connect regulator to full O2 cylinder | 7a. Be sure that the cylinder outlet port, the regulator connecting flange, and the indexing pins are properly aligned |
| 8. Tighten regulator "T" handle | 8a. Snug - do not over tighten |
| 9. Open O2 cylinder valve | 9a. Approximately 1/2 turn |
| 10. Check regulator pressure gauge | 10a. Should show full |
| 11. Listen and feel for O2 leaks | 11a. If leaking, try tightening the "T" handle a bit more |
| 12. If leaking persists, close O2 cylinder valve and repeat steps 1 through 4 | |



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APPLICATION:

The student will practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO CHANGE A
RESUSCITATOR CYLINDER

	<u>POINTS</u>
Time Start	
1. Close O2 cylinder	<u>10</u>
2. Bleed off residual pressure in regulator	<u>10</u>
3. Loosen regulator "T" handle	<u>5</u>
4. Remove regulator from empty O2 cylinder	<u>5</u>
5. Check O2 cylinder/regulator gasket	<u>10</u>
6. Remove seal from top of full O2 cylinder	<u>5</u>
7. Connect regulator to full O2 cylinder	<u>10</u>
8. Tighten regulator "T" handle	<u>10</u>
9. Open O2 cylinder valve	<u>10</u>
10. Check regulator gauge	<u>10</u>
11. Listen and feel for O2 leaks	<u>10</u>
12. If leaking persists after retightening, close O2 cylinder valve and repeat steps 1 through 11	<u>5</u>
Time Stop	<u>5</u>

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

POINTS

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
