



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration



**DOES YOUR CYLINDER
REQUALIFICATION
TRAINING BY THE VISUAL
INSPECTION METHOD MEET
THE REQUIREMENTS OF
49 CFR § 172.704?**

WWW.PHMSA.DOT.GOV



External visual requalifiers of DOT-approved cylinders are required to undergo function-specific training as specified in 49 CFR § 172.704. This training enables them to perform the job of external visual requalification in accordance with CGA Pamphlet C-6 or C-6.3 as applicable: (§ 180.209(g)).

FUNCTION-SPECIFIC TRAINING FOR ALUMINUM CYLINDERS (CGA C-6.1-1995 INCORPORATED BY REFERENCE IN 49 CFR) (SEE REFERENCE FOR A COMPLETE LISTING), MUST COVER THE WORKER'S:

- Knowledge of paint removal to ensure they can sufficiently observe cylinder walls;
- Ability to inspect cuts, dents, impact damage, structural damage, chemical damage, heat or fire damage, as well as understanding the corresponding levels of damage (levels 1, 2, and 3), and how such levels impact final cylinder use;
- Ability to inspect the cylinder's interior threads and O-rings using high-intensity lights;
- Ability to recognize corrosion; and
- Understanding the acceptable tolerances for damages beyond which the cylinder requires repair (Rejection), or if it must be taken out of service (Condemned).



FUNCTION-SPECIFIC TRAINING FOR FIBER-REINFORCED HIGH PRESSURE CYLINDERS (CGA C-6.2-2005, INCORPORATED BY REFERENCE) (SEE REFERENCE FOR A COMPLETE LISTING), MUST COVER THE WORKER'S:

- Knowledge of the inspection procedures;
- Knowledge about paint removal; and more so, why complete paint removal is not recommended, i.e., most chemical paint removers can damage the overwrap. Abrasive or other mechanical means of paint removal, such as shot blast or wire brush, are not recommended.
- Knowledge that they must remove protective sleeves prior to visual requalification;
- Knowledge regarding the types of damage (craze, cracking, disbanding, heat damage, voids, surface cracks, and rework);
- Knowledge of the levels of damage (levels 1, 2, and 3); and
- Acceptance criteria.

FUNCTION-SPECIFIC TRAINING RECORDS:

Training records for all requalifiers must be retained as prescribed in 49 CFR 172.704(d), and include the following:

Description, Copy, and Location of Training Materials Used	Training Provided By	Test/ Score (not mandatory)	Date Trained

Employee Name: _____

I certify that the hazmat employee identified on this training record has been trained and tested as required by the Hazardous Materials Regulations, Subpart H.

Signed: _____

Title: _____



REMEMBER:

- Every worker **MUST** be trained based on the function / job they perform.
- DOT-approved cylinder requalification approvals **expire every 5 years.**
- Recurrent training must be performed every three (3) years (49 CFR § 172.704(c)2).
- Always provide an e-mail address on your application. Applications are available at: www.phmsa.dot.gov/portal/site/PHMSA/menuitem.6f23687cf7boobof22e4c6962d9c8789/?vgnextoid=fd44fd3732379310VgnVCM1000009edo7898RCRD&vgnextchannel=002aa535eac17110VgnVCM1000009edo7898RCRD&vgnextfmt=print
- Visual applications may now be submitted on line at: <https://portal.phmsa.dot.gov/PHMSAPortal2/>
- If you submit a complete application for renewal at least 60 days prior to the expiration, your approval will not expire until PHMSA takes administrative action (§ 107.705(c)).
- For more information, visit PHMSA's website: www.phmsa.dot.gov and click on the "Hazardous Materials Safety" tab -> Approvals and Permits -> Pressure Vessels -> Visual Only Requalifiers.

For additional information contact:

The Hazardous Materials Info Center

1-800-HMR-4922

(1-800-467-4922)

Email: infocntr@dot.gov

<http://hazmat.dot.gov>

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