



DOT HAZMAT TRAINING – MEETING CFR49 172.700



ADR training also available

The best documented, best structured CFR49 course on the planet

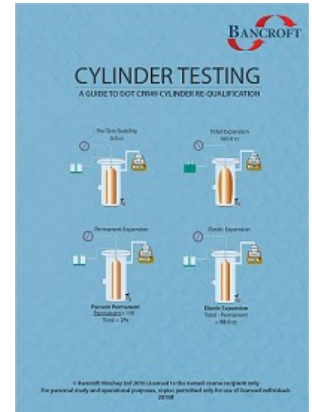
Comprehensive training manual – almost 200 pages of information, current CFR49, essential checklists, manufacturer symbols library, self-study worksheets and reference material

Fully covers the details of testing each specification tested by you, including Special Permits in an easy to follow gradual learning experience. No other course does this

No other instructor is higher qualified. Trains other IIA's as well as operators, technicians, management and quality engineers

The most frequent reasons for audit findings are due to incorrect training. This is not just incorrect or missing information, it is a failure to ensure the knowledge is understood. The unique course approach checks knowledge comprehension and retention at each stage of the process

Combines theory and practical elements to ensure delegates have a thorough working knowledge



Modular Description	Time	Content
1. General Awareness	3	Background and how/why we test
2. Workshop use	2	Instructor led use of YOUR system in YOUR workshop
3. CFR49	7	Rules, regulation and their implementation
4. Visual Inspection	2	Visual requirements using CGA pamphlets
5. Metrology	2	Instruments, calibration, use and application
6. Hands on	5	Practical hands on
7. Techniques and SP	1	Tips and tricks of different cylinder types including SP
8. Safety	1	Overview and assessment in <u>YOUR</u> workshop
9. Components & troubleshooting	1	Review and use of <u>YOUR</u> system
10. Security	1	Meets DOT security requirements
11. SP specifics	2-4	Meets training necessity to train on each SP tested
12. Written exam	3.5	
13. Practical assessment	1	Hands on coaching and assessment on <u>YOUR</u> system; time per person
14. DOT appraisal report	4-6	For pre-audit, or surveillance visit purposes. Review your processes, systems and knowledge. Used to maintain quality standards and prepare for a DOT inspection/audit

Times are estimates and vary with each course. Individual modules can be provided if required

Key points

A unique, informative and exciting in-depth HazMat training course completely satisfying the requirements of CFR49

- Instructor lead training is more effective, relevant and specific than on-line training
- Proven systematic and progressive teaching and learning structure
- Reduce disruption to your working day with no additional travel costs for your staff with training on your site on your equipment, and on your specifications and cylinder types
- Specific to staff knowledge, experience and activity performed
- Small groups - individual focus can be given
- Easier for non-english speakers as pace is adjusted to comprehension level

TRAINER INFORMATION - Chris Hinchey

- ✓ Almost 30 years' experience in the gas cylinder industry
- ✓ BSc(Hons) Mechanical Engineering. AMIMEchE
- ✓ A trained trainer
- ✓ DOT IIA auditor and IRCA qualified
- ✓ Chris is highly experienced in the design, installation, maintenance and troubleshooting of various pressure testing units whether self-made or from known manufacturer's

A short test

You should be able to get 10/10 if you can't, you may need training!

1. **At the start of testing each day, the system must be able to calibrate within what percentage of the calibration cylinder certificated values?**
 - A) 1%
 - B) No tolerance
 - C) 0.5%
 - D) 0.25%
2. **A calibration cylinder requires periodic calibration**
 - A) Yes
 - B) No
3. **Do you have to record a test aborted due to system failure at 90% of test pressure?**
 - A) No
 - B) Yes
4. **Any change in retester personnel must be reported within**
 - A) 90 days
 - B) 20 days
 - C) 3 years
5. **Visual inspection should be carried out in accordance with which of the following CGA pamphlet(s)?**
 - A) C1:2016
 - B) C3:2005
 - C) C6:2013
 - D) C6:1993
6. **On the first test on a DOT-3AA-1800 cylinder, test pressure is 3010 psi and gives negative expansion. Correct repeat test pressure is**
 - A) 3100 psi
 - B) 3110 psi
 - C) 3000 psi
7. **Training must be completed within 20 days of employment or change in job function**
 - A) Yes
 - B) No
8. **Elastic Expansion is**
 - A) Total – permanent expansion
 - B) Permanent – total expansion
 - C) $\text{Total} \div \text{permanent expansion} \times 100$
9. **You do not need to record the Elastic expansion on a calibrated cylinder as it has to return to zero after pressure release**
 - A) True
 - B) False
10. **A life expired cylinder can be condemned without entering details onto the test record**
 - A) True
 - B) False

Answers: 1) A; 2) B; 3) A; 4) B; 5) D; 6) B; 7) B; 8) A; 9) A; 10) B One of these answers is incorrect – can you find it?

Training Request/Booking Form

Mark the boxes as needed

1. Course Required		<input type="checkbox"/> DOT CFR 49 HazMat OR <input type="checkbox"/> CFR49 Operational/ maintenance only <input type="checkbox"/> CFR49 Audit pre-assessment <input type="checkbox"/> ADR OR <input type="checkbox"/> ADR operational only <input type="checkbox"/> Other Specify _____		
2. Dates				
Required Dates Please give three options if possible	Option 1	Option 2	Option 3	
3. System and cylinder specifications				
Test system used	<input type="checkbox"/> Galiso GTC <input type="checkbox"/> Galiso RecOpen <input type="checkbox"/> Galiso Rec4Open <input type="checkbox"/> Ronning <input type="checkbox"/> Other _____			
Cylinder types	<input type="checkbox"/> 3/3A/3AA <input type="checkbox"/> 3AL <input type="checkbox"/> 4B/4BA/4BW <input type="checkbox"/> 4D/DA/DS <input type="checkbox"/> 3HT <input type="checkbox"/> Special Permit <i>List all types</i> <input type="checkbox"/> Other <i>List all types</i>			
Test pressures used	Min _____ Max _____			
4. Company details				
Company Name			RIN number	
Company Address				
Contact Name and email				
Phone Number			Mobile number	
Training Location if Different to Company Address				
<p>All operators require good verbal and written English language skills (i.e. fluent). We must be made aware of any delegates who cannot speak or read English as we may have to adapt the course accordingly and additional time may be required. Please state the number that best describes each delegates standard of English in the box provided:</p> <p>1) Almost no understanding 2) Able to read English with assistance. Verbal understanding ltd 3) Basic understanding of spoken and written English 4) Good understanding , able to understand most verbal and written English 5) Fluent – able to interpret</p>				
5. Delegates A standard course accommodates up to 4 operators and 1 manager Managers do not need full proficiency with the equipment and may be Quality Department, support engineers or other persons requiring familiarity but not full operational test system use		Fluent English – Enter number as below	Operator /Manager	Previous Training Date
Delegates Names Please print <u>exactly as it should appear on the certificate</u> <i>More than 4 operators plus 1 supervisor can be accommodated but will incur additional time for practical assessments</i>	1.		<input type="checkbox"/> O <input type="checkbox"/> M	
	2.		<input type="checkbox"/> O <input type="checkbox"/> M	
	3.		<input type="checkbox"/> O <input type="checkbox"/> M	
	4.		<input type="checkbox"/> O <input type="checkbox"/> M	
	5.		<input type="checkbox"/> O <input type="checkbox"/> M	
	6.		<input type="checkbox"/> O <input type="checkbox"/> M	
	7.		<input type="checkbox"/> O <input type="checkbox"/> M	
<input type="checkbox"/> I confirm all operators have good numeracy – able to calculate percentages, fractions and add/subtract				
7. Other				
Special Requests/Additional Information				

Signed _____ Date _____

Terms for training: full payment with booking required, dates given are provisional until PO and payment received
 Prices quoted exclude cost of travel, hotel, ground transport and other expenses. Travel (business class) is booked by us and invoiced at cost before travel. Other expenses are invoiced at cost after completion. Training materials are Copyright Bancroft Hinchey Ltd and only valid as part of a Bancroft licenced instructor led training and expire after 3 years validity. Other use of training material, including providing own training, is not licenced and will incur an additional fee

TRAINING CHECKLIST

To help you to get the best from your training visit please complete the checklist below and return to us when items are completed. **Click each box to confirm ✓**

If the test system is not new it is important that it is working correctly during the visit, as any time spent rectifying it detracts from training time

Daily Timings					
Start				Finish	
Scheduled breaks	Lunch				
	AM		PM		

Training requirements Tick each box to confirm ✓

- Use of a "classroom" area near to the test system.
- Use of a projector to link to our laptop, and wall or screen to project on to.
If you do not have one please let us know in advance
- Existing system users & repeat trainees have had operational experience
- All operators **must have good verbal and written English language skills (i.e. fluent)**. Use of a translator will add additional time
- All operators have good numeracy – able to calculate percentages, fractions and add/subtract
- The course is a systematic training programme and builds knowledge gradually. Operators must attend all sessions for full certification
- Operators will need to spend study time outside of classes to complete assignments

Test System must be fully functional

- Able to hold a steady expansion (0.0cc) for at least 2 minutes
- Able to hold maximum pressure – at 8000 psi with the calibration cylinder (or as appropriate); a drop of up to 12 psi in 2 minutes is acceptable (check the cylinder is capable of 8000 psi!)
- Calibration cylinder able to meet all expansion points within 1% and return to 0.0 cc after testing

Documentation

Please have copies available of the following

CFR49	ADR/EU
A current copy of Title 49, Code of Federal Regulations, Parts 100-185	A copy of the relevant BS EN ISO standards e.g.
<input type="checkbox"/> Current applicable printed copies of LATEST Special Permit documents for SP cylinders being trained	BS EN 1968
<input type="checkbox"/> Compressed Gas Association (CGA) Pamphlets appropriate to cylinders that are tested. Whilst CGA Pamphlet C-1:2016 is not required by CFR 49 171.7, we strongly recommend a copy is available	BS EN 1802
	BS EN 1803
	ISO 11623

- Calibration Certificate(s) for the test (working) PID/gauge(s) and other components of the system that may require periodic calibration such as master gauges, scales, burettes etc
- A calibration cylinder and calibration chart showing the cylinder's expansions *if applicable*
- Equipment and/or instruments necessary for external and internal visual inspection
- Recordkeeping form(s) that indicates system calibration and cylinder testing

Completion date: _____

Completed by: _____