

CONTENT OF TRAINING MODULE.
CONVERSION OF ACETYLENE/OXYGEN TO CHEMTANE 2 OR LPG/OXYGEN USEAGE

1. **EXPLANATION OF THE PROPERTIES OF ACETYLENE VS LPG GAS.**
 - a. Ignition Temperature
 - b. Explosive Ranges
 - c. Flame Speeds
 - d. Flame Temperatures
 - e. Experiments

2. **CYLINDERS, ACETYLENE VS LPG – COMPARISON**
 - a. Comparison
 - b. Cylinder Size for workshop

3. **REGULATORS FOR ACETYLENE VS LPG – COMPARISON**
 - a. Gauges on Regulators, (2 on Acetylene, 1 on LPG)
 - b. Information that these gauges provide, Acetylene vs LPG
 - c. Standards, SANS10238, EN ISO 2503
 - d. Maximum working Pressures. 150kPa Acetylene, 400kPa LPG (WHY?)

4. **FLASHBACK ARRESTORS**
 - a. Standards, EN ISO 50730-1/2
 - b. If found to be in good condition.....

5. **GAS HOSES – SANS 1156 – LPG VS SANS 3821 ACETYLENE**
 - a. Neoprene for LPG, India Rubber for Acetylene
 - b. Rapid deterioration of hoses if interchanged
 - c. Remove of Talcum Powder, Why?
 - d. Identification of Gas in use

6. **TORCHES**
 - a. Injector Torch VS Nozzle Mix Torch
 - b. Experiments – Reverse Flow vs Suction

7. **NOZZLES**
 - a. Explanation relating to the most important function/purpose of the nozzle
 - b. If LPG Gas Nozzle cannot be fitted to the existing torch a suitable torch needs to be used, I.E. Harra Torch

c. Experiment with Harra Torch

8. LEAKAGE TEST

- a. Procedure for testing the entire equipment setup.
- b. P.T.O.

9. LIGHTING UP AND SHUTTING DOWN PROCEEDURE

- a. Procedure for Lighting Up and Shutting Down of equipment,
- b. P.T.O.

10. Questions and Answers (Time Permitting)

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Duration:	½ day (4 Hour Session)
Number of Participants:	Minimum 10 / Maximum 10
Course Language:	English
Venue:	Provided by your Company at your premises
Equipment:	Oxy / Acetylene cylinders, LPG Cylinder. Drawing White Board, Fire Extinguisher, (preferably CO ₂), equipment currently in use, consisting of regulators, hoses and torches.
Cost:	As per Quotation
Travel:	At the AA Rate
Contact:	Anneke Hofmeyr anneke@gas-safety.co.za seminars@gas-safety.co.za
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PLEASE NOTE THAT ALL BOOKINGS MUST BE CONFIRMED IN WRITING VIA FAX OR E-MAIL

PLEASE ALSO SEE TERMS AND CONDITIONS OF SEMINAR BOOKINGS

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