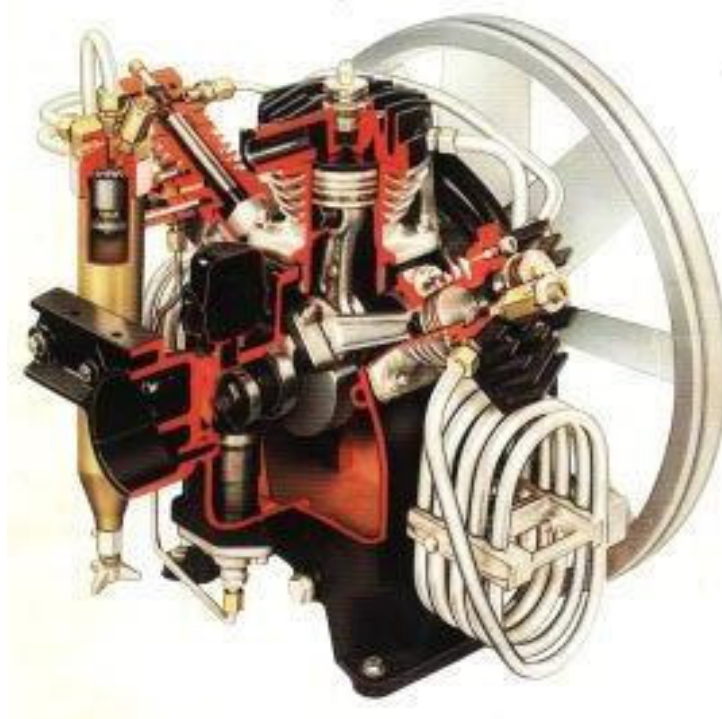




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## **Advanced Compressor Technician Course (5days)**

Featuring:-  
Bauer Junior, Capitano, Mariner, KAP Series  
Coltrisub MCH6, MCH16

Learn how to use and carry out routine servicing of all models...  
Then strip down and rebuild one of your choosing!

## Compressor Academic Development Work (day1)

- Legal requirements & regulations
- Operator Instructions
- Air facts and pumping rates
- Single stage compression – disadvantages
- Multi stage compression
- Compressor Efficiency
- Determining Compressor size requirements
- 3 stage High Pressure compressor – essential system parts.
- Water separator & filtration system
- Filter composition – chemicals used
- Air Quality Measurements – EN12021
- Air Quality test Methods
- Lubrication methods and oil types
- Explosion hazards,
- Compressor use – essential operator tasks
- Compressor use – essential maintenance tasks
- Air bank usage
- V-belt adjustment
- Pulley wheel alignment
- 3 phase electricity supply fundamentals
- 3-phase Star-Delta Starter fundamentals
- 3-phase motor protection systems
- Advanced EN12021 Breathing Air Filtration System Design & PMV Dependency
- Water content of air at different temperatures
- Predicting Molecular sieve lifetime
- Predicting Activated Carbon lifetime
- Hopcalite requirements for carbon monoxide filtering
- Compressor and air storage systems horror stories, photo examples.
- Compressor Servicing Manuals usage
- Spare parts ordering
- Manufacturers product reviews
- **THEORY EXAM**

## Workshop Session (day2)

- Hands on user servicing and run up tests of (all models)
  - Bauer junior, Capitano, mariner, K14
  - Coltrisub MCH6, MCH16

## Workshop Session Days(3,4,5)

Chose from either:-

Bauer Junior, Capitano, Mariner, KAP Series\*  
Coltrisub MCH6, MCH16

- Remove and replace protective guards
- Remove and replace intercooler pipes
- Remove and replace cylinder heads
- Remove and replace cylinder barrels
- Examine cylinder barrels for wear
- Examine bearings for wear.
- Strip down and adjust safety valves
- Strip down and rebuild final Bauer p21 safety valve
- Strip down and adjust PMV
- Strip down and service Interstage condensate trap replace filter
- Strip down and repack P21 filter
- Adjust high pressure Oil Pump setting of Bauer final stage lubrication system.
- Setup and use of Bauer B-timer Automatic filter monitor
- Use of interstage pressure gauges for fault finding.
- Test compressor to 330bars to confirm integrity and lack of leaks
- Power consumption measurement – use of Voltmeter & clip on ammeter.
- Rpm measurement methods
- Heat measurement of heads and intercooler functionality checks
- 3-phase wiring basics - Changing rotation direction of 3-phase electric motor
- 3-phase star-delta starter / 6 wire 3-phase motor basics. Adjusting Star-delta switch time.
- Petrol engine rpm regulator adjustment for correct rpm
- Alignment of drive motor and fan belt adjustment
- Pumping efficiency tests
- Compressor Log sheets use
- Introduction of faults to the compressor and technician booby traps
- EN12021 Air purity testing – preparation and test workshop following rebuild

Includes:-

- ASSET/IDEST approved Compressed Air Systems Maintenance Certification establishing the legal competent person status of the technician to work on all compressed air systems
- All student training Manuals used during the course + online Compressor database access
- All compressor spare parts & consumables used during the course
- Free Tea/Coffee and high speed Wi-Fi internet access at the training center