OTTC Technical Diploma

Course	Content	Own Date
Refrigeration 6A 1 Week	• calculation of the heat load of a cold room • establishing the operating conditions in the refrigeration system • calculation of the refrigeration system by the log p, h diagram and the property tables	
Refrigeration 6B 1 Week	• sizing of components (compressor, heat exchangers, pipes, etc.)	
Refrigeration 6C 1 Week	• sizing of components (compressor, heat exchangers, pipes, etc.) • calculation of the amount of refrigerant loss on a leak	
Electrical Control 6A 1 Week	• designing of electrical components and wires	
Electrical Control 6B 1 Week	• designing of electrical components and wires	
Refrigeration 7 1 Week	• rules and laws about refrigeration systems	
Electrical Control 7 1 Week	• rules and laws about electrical systems	
Secondary cooling 2 1 Week	• designing of hydraulic systems • sizing of pumps	
CO_2 2 1 Week	• designing of subcritical and trans critical CO_2 plants	
Technical drawing 5 1 Week	• drawing flowcharts and electrical schematics of the technical diploma project • designing of the diploma project	
Plant building 6. 1 Week	• building and commissioning of a refrigeration plant to prepare the technical diploma. • writing of logbooks • fault finding on refrigeration plants	
Technical Diploma 1 Week	• building and commissioning of a refrigeration plant including of a theoretical and a practical test	

Open Trade Training Centre
Mrs. Isolde Döbelin, OTTC Director
1 Epidote Rd, Dersley, Springs, 1569
Tel. No.: 011-816-2580 Fax No.: 011-366-1219
Mail to: info@ottc.co.za or idobelin@icloud.com
Website: www.ottc.co.za

OTTC Technical Diploma

Course	Content	Own Date
Quoted prices include: Work Sheets, Material, Lunch, Tea, Coffee. Pass mark per course 60%, Pass mark for all OTTC-Diploma test's 75% theoretical and practical. --Prerequisites: basic literacy + numeracy -- Courses are presented in English. Courses can be split in a week-to-week basis **PRACTICAL DONE IN WORKSHOPS ON FULL SIZED PLANTS**		

OTTC Program Definition

1. OTTC Try a Trade

2 weeks free training for school-leavers to get motivated working as an artisan.

2. OTTC Refrigeration & Air-conditioning for Beginners

The program is designed for the first-year apprentice ship
The outcome is a perfect assistance working efficiently with the Technician and is an asset to be employed.

3. OTTC Practical Diploma

Precondition:
OTTC Beginners Program for Refrigeration & AC or equivalent to prior learning.
For the perfect Technician for commercial refrigeration to do:
New installations on cold rooms and refrigeration plants
Servicing and maintenance, repair, fault-finding, improvements for energy savings.
Still working under supervision.
Including all requirements to do a trade test on international levels.

4. OTTC Technical Diploma

Preconditioning:
OTTC Practical Diploma, or equivalent.
For the supervisors, plant operators and plant designer.
Including commercial and industrial refrigeration, secondary cooling and CO2 plants for Supermarkets and Cold Stores non-Ammonia Plants.

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5. OTTC Air-Conditioning Diploma

Specialized program for technician and supervisor and designer working in the Air-Conditioning Industry for heating and cooling on central Air-conditioning plants.

6. OTTC Ammonia Diploma

Specialized program: for people working in Ammonia, Technician, Supervisor, Operator and Designer. Ammonia Industrial Plants are used for cold stores, chicken-factories, dairies, breweries. Ect.

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