



OTTC Ammonia Diploma



Course	Content	Own Date
AM – 1 1 week	<ul style="list-style-type: none"> Safety Regulation, safety protection on plant, safety valves, safety switches, the dry evaporation system, expansions valve control, oil change and service procedures, cooling tower, evaporative condenser, shell and tube condenser, fault finding 	
AM – 2 1 week	<ul style="list-style-type: none"> Flooded system, ice bank = with HP float valve, LP level control, level switch control, flooded evaporator with hot-gas defrost, liquid pumps, oil filter 	
AMP – 1 1 week	<ul style="list-style-type: none"> Plant instruction, operating of plant with liquid pump, two air-forced evaporators, hot-gas defrost, evaporator plate heat-exchanger with chiller-water cycle, trouble shooting, diagnoses and identification, oil drainage, air-purging V-belt alignment, charging of plant. 	
AMP – 2 1 week	<ul style="list-style-type: none"> Servicing of various compressors, remove pistons, remove cylinders, remove shaft seal, check wear and tear, oil filter, suction filter, oil pump, servicing of shut of valves, repair and overhaul different valves. 	
AM - 3 Diploma 1 week	<ul style="list-style-type: none"> Screw compressor for ammonia plant with liquid ammonia pumps, valve station with hot gas defrosts, surge drum for liquid pumps, problem solving, plotting of ammonia plant in the diagram, determining of cooling capacity. 	
AM – SH 1 week	<ul style="list-style-type: none"> Maintain safety in the handling of ammonia refrigerant For persons working in Ammonia Sites, Fire brigades, First Aid Personal Unit standard: 116- : 220-223-334-355-468-700-704 and as per SANS 10147 Knowledge of legislation concerning health, safety, and environmental standards i.e., OHSA, PER, Montreal Protocol. Standards knowledge of this standard SANS 10147. 	
Advanced	The AM Plant design is an advanced course and not necessarily part of the diploma	
AM Plant Design 2 weeks	<ul style="list-style-type: none"> Requirement's assessments, calculate refrigeration capacity, select equipment and components, make flow diagram, Compile material list, Price material list, establish all other expenses, arrive at final selling price, commencing with small thermosyphon plant, followed by simple pump re-circulation plant, thereafter more complex plants, Course can be extended to last longer or be continued at later date. 	
<p>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</p>		



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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.

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.