OKBR – Basics of Refrigeration



Life-Online-Training - Course Schedule - Calendar week xx/20xx

Training leadership:		N.N.
1. Day		
09:00 subseq.	N.N. N.N.	Welcome, general remarks Basics of thermodynamics (temperature, pressure, enthalpy, vapour pressure curve, steam table, density)
10:00 10:10	Coffee break N.N.	Basics of thermodynamics Structure and operational principles of the refrigerant circuit (evaporation, compression, condensation, expansion, function of the main components, pipes)
11:00 11:10	Coffee break N.N.	Structure and operational principles of the refrigerant circuit
12:00	Lunch break	
12:40	N.N.	Structure and operational principles of the refrigerant circuit Superheat, subcooling (Definition, reasons, how to achieve superheat and subcooling, determination in the refrigerant circuit, examples)
13:40	Coffee break	in the reingerant enealt, examples)
13:50 14:50	N.N. Coffee break	Superheat, subcooling
15:00 16:00	N.N. End of first day	Superheat, subcooling
2. Day		
09:00	N.N.	Discussion of homework, open questions
10:00 10:10	Coffee break N.N.	Expansion device (capillary tube, thermostatic expansion valve with internal and external pressure compensation, electronic expansion valve)
11:00 11:10	Coffee break N.N.	Evaporator (evaporator capacity, dry and flooded evaporation, evaporator designs, air coolers and liquid coolers)
12:00	Lunch break	
12:40	N.N.	Compressor (compressor parameters, performance data, compressor application limits, compressor designs, reciprocating, scroll, rolling piston, screw compressors)
13:40	Coffee break	
13:50	N.N.	Compressor

Condenser (condenser sections, desuperheating, condensing, subcooling,

condenser designs, air- and water-cooled condensers)

Condenser

Discussion of open questions

Coffee break

End of training course

N.N.

14:50

15:00

15:15

16:00