

# KT20 – Basics of Refrigeration



## Course Schedule - Calendar week xx/20xx

Training leadership: N. N.

### Day 1

|         |                  |   |
|---------|------------------|---|
| 09:00   | <b>N. N.</b>     | Welcome, general remarks                                      |
| subseq. | <b>N. N.</b>     | Basics of thermodynamics                                      |
| 09:50   | Coffee break     |   |
| 10:10   | <b>N. N.</b>     | Structure and operational principles of the refrigerant cycle |
| 11:45   | Lunch break      |   |
| 12:35   | <b>N. N.</b>     | Superheat, subcooling   |
| 13:55   | Coffee break     |   |
| 14:05   |                  | <i>Laboratory exercise group 1</i>                            |
|         | <b>N. N.</b>     | <i>Laboratory exercise group 2</i>                            |
|         |                  | Heat exchangers   |
|         |                  | Compressors and throttle devices                              |
|         |                  | <i>10 minutes coffee break 14:50 to 15:20</i>                 |
| 16:30   | End of first day |   |

### Day 2

|         |                              |   |
|---------|------------------------------|---|
| 08:00   | <b>N. N.</b>                 | Discussion of homework, open questions  |
| subseq. | <b>N. N.</b>                 | Components of the refrigerant cycle<br>(compressor, evaporator, condenser, expansion valve) |
| 09:50   | Coffee break                 |   |
| 10:10   | <b>N. N.</b>                 | Components of the refrigerant cycle<br>(compressor, evaporator, condenser, expansion valve) |
| 11:45   | Lunch break                  |   |
| 12:35   | <b>N. N.</b>                 | Further components of the refrigerant cycle   |
| 13:40   | Coffee break                 |   |
| 13:50   |                              | <i>Laboratory exercise group 2</i>  |
|         | <b>N. N.</b>                 | <i>Laboratory exercise group 1</i>  |
|         |                              | Heat exchangers   |
|         |                              | Compressors and throttle devices  |
|         |                              | <i>10 minutes coffee break 14:50 to 15:20</i>   |
| 16:15   | Discussion of open questions |   |
| 16:30   | End of training course       |   |

*After a maximum of 50 minutes theory a 5-minute break is provided.*