

# PKBR – Basics of Refrigeration



## Course Schedule - Calendar week xx/2023

**Training leadership:** Dipl.-Ing. (FH) Marco Fix

### Wednesday, 28.09.

09:00	<b>M. Fix</b>	Welcome, general remarks	
subseq.	<b>M. Fix</b>	Basics of thermodynamics	
09:50		Coffee break	
10:10	<b>M. Fix</b>	Structure and operational principles of the refrigerant cycle	
11:40		Lunch break	
12:30	<b>M. Fix</b>	Superheat, subcooling	
13:55		Coffee break	
14:05		<i>Laboratory exercise group 1</i>	<i>Laboratory exercise group 2</i>
	<b>M. Fix</b>	Heat exchangers	<b>S. Bellm</b>
			Compressors and throttle devices
		<i>10 minutes coffee break 14:50 to 15:20</i>	
16:30		End of first day	

### Thursday, 29.09.

08:00	<b>M. Fix</b>	Discussion of homework, open questions	
subseq.	<b>M. Fix</b>	Components of the refrigerant cycle (compressor, evaporator, condenser, expansion valve)	
09:50		Coffee break	
10:10	<b>M. Fix</b>	Components of the refrigerant cycle (compressor, evaporator, condenser, expansion valve)	
11:40		Lunch break	
12:30	<b>M. Fix</b>	Further components of the refrigerant cycle	
13:40		Coffee break	
13:50		<i>Laboratory exercise group 2</i>	<i>Laboratory exercise group 1</i>
	<b>M. Fix</b>	Heat exchangers	<b>S. Bellm</b>
			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.*