Basics of Automotive A/C-Systems with R134a
Course Schedule

1st day

08:45	N. N.	Hand-over of course documents	
09:00	N. N.	Welcome, general remarks	
09:30	N. N.	Structure and operational principles of automotive A/C-Systems	
10:30	coffee break		
10:50	N. N.	Structure and operational principles of automotive A/C-Systems, continued	
12:15	lunch break		
13:15	N. N.	Superheat, subcooling	
14:45	coffee break		
15:05	N. N.	Introduction to the lg p, h-diagram	
16:30	end of first day		

2nd day

08:00	N. N.	Discussion of supplementary exercises	
subseq.	N. N.	Expansion devices for automotive A/C-Systems	
10:00	coffee break		
10:20	N. N.	Expansion devices for automotive A/C-Systems, System design	
11:15	N. N.	Lubricants for compressors in automotive A/C-Systems (Requirements, characteristics, material compatibility)	
12:15	lunch break		
13:15		*Lab exercise group 1* N. N. Installation of an A/C-System	*Lab exercise group 2* N. N. Dynamics of the refrigerant cycle (block valve)
	20 min. coffee break ca. 14:45 o'clock		
16:45	end of second day		

3rd day

08:00	N. N.	Discussion of supplementary exercises	
subseq.	N. N.	Heat exchangers for automotive A/C-Systems	
10:15	coffee break		
10:35	N. N.	Heat exchangers for automotive A/C-Systems, continued	
11:00	N. N.	Leak testing, minimizing refrigerant emissions	
12:15	lunch break		
13:15		*Lab exercise group 2* N. N. Installation of an A/C-System	*Lab exercise group 1* N. N. Dynamics of the refrigerant cycle (block valve)
	20 min. coffee break ca. 14:45 o'clock		
16:45	end of third day		

4th day

08:00	N. N.	Discussion of supplementary exercises	
subseq.	N. N.	Compressors for automotive A/C-Systems	
10:00	coffee break		
10:20	N. N.	Compressors for automotive A/C-Systems, continued	
11:15	N. N.	Flexible hoses	
12:15	lunch break		
13:15		Lab exercise group 1 N. N. Condenser with integrated sub cooler	Lab exercise group 2 N. N. Dynamics of the refrigerant cycle (Orifice)
14:45	coffee break		
15:00		Lab exercise group 2 N. N. Condenser with integrated sub cooler	Lab exercise group 1 N. N. Dynamics of the refrigerant cycle (Orifice)
16:30	N. N.	Discussion of further questions	
16:45	end of training course		