

Lifelong Learning



· · · · · · · · · · · · · · · · · · ·	Europaan Parmers Jun Franzy Parlamance	Programme		
			Climatic criteria	1 Can explain the term outdoor conditions
			Climatic criteria	2 Can explain the index of conditions
			Cost awareness	2 Ear Capital the moor emitted requirements
			Calculation	4 Knows the methodology of how to calculate the energy performance of buildings
			Requirements	5 Knows the term minimum energy performance requirements
			Application of requirements	6 Can explain the meaning of major renovation
	EPBD subject matter	Energy performance of buildings	Application of requirements	7 Can explain the meaning of significant impact
			Application of requirements	8 Can explain the details of technical systems in buildings
			Application of requirements	9 Knows the term nearly zero energy building
			Application of requirements	10 Knows the fundamental data of energy certification
			Application of requirements	11 Knows the energy inspection targets of technical systems in buildings
			Application of requirements	12 Can explain the task of the independent control system for certificates
			Application of requirements	13 Knows the circumstances where more stringent measures should be applied
			Energy supply	14 Knows the components of the whole energy demand
			Energy supply	15 Knows the calculating methods for energy performance of a building
			Energy supply	16 Knows the measuring methods for energy performance of a building
		For any state of the little state	Energy supply	17 Can explain the major parts of building constructions
		Energy performance of buildings	Energy supply	18 Can explain different types of energy consumption used in buildings
			Energy supply	19 Knows the thresholds of energy performance categories in buildings
			Energy supply	20 Can explain the different kind of renewable energies
			Energy supply	21 Can explain the term renewable sources on site
			HVAC Systems	22 Knows the different heating solutions
			HVAC Systems	23 Knows the different cooling solutions
		Technical building system definition	HVAC Systems	24 Knows the different ventilation solutions
			HVAC Systems	25 Can explain the generation of hot water
			HVAC Systems	26 Can explain the effect of lighting on the power consumption
			Primary energy	27 Can explain the different energy sources
		Energy sources	Primary energy	28 Can explain the term energy conversion
			Primary energy	29 Can explain the term energy transformation
		-	Building structure	30 Can explain the term building unit
		Building	Building structure	31 Can explain the term building envelope
			Building structure	32 Can explain the term hulding element
	EPBD definitions		Building structure	33 Can explain the term public buildings
			Building structure	34 Can explain the term private buildings
			Major renovation	35 Cran define the meaning of major renovation technical systems
			Major renovation	36 Can define the meaning of major renovation of building envelope
			Building certificate categories	37 Knows what kind of building should need an energy performance certificate
			Building certificate categories	38 Knows what kind of buildings have to display the energy performance certificates
			Standards	39 Knows the related standards
		European standards	Standards	40 Knows the position of the standards
		-	Lifecycle cost calculation	11 Knows the elements and role of the investment costs
			Lifecycle cost calculation	42 Knows the elements of maintenance costs
			Lifecycle cost calculation	43 Knows the elements of the operating costs
		Cost optimal level	Lifecycle cost calculation	44 Knows about earnings from energy produced on-site
			Lifecycle cost calculation	45 Knows the term estimated life-cycle of building elements
			Lifecycle cost calculation	45 Knows the term of estimated life-ovel of building
			AC systems	47 Can explain the function of air conditioning systems
		Air-conditioning	AC systems	As Can define the components of air conditioning systems
			AC systems	Ag Can explain the function of a referenciency of a
		Heating system components	Boiler	50 Can explain the function of besting systems
		riceking system components	Effective rated output	50 Earl capital de lacard working conditions
		Heatload-gain calculation	Effective rated output	51 Choice control the calculation of the local cload
			Effective rated output	52 Can contain the calculation of the field volume approximation and provide many for huildings
			Cost-ontimal levels	54 Knows the schemical and financial dealer scale labeling the optimal cent to addings
			Cost-optimal levels	ST Fallows do technical and indicate defails for calculating the optimise toos to advise the end user
	EPBD calculations	Calculation methodology	Cost-optimal levels	SS Can explain the oritoria for the minimum requirements for energy performance for an existing building to be reported
			Cost-optimal levels	ST knows the proper definition of pearly zero energy belowing (STR)
			Cost-optimal levels	St Knows the system financial incentives for connorthing for convexion & new buildings
			System methodology	Sq Knows the term operator
			System methodology	an Can evaluating testson shifts of an operator
			System methodology	Up our exponence responsibility of an operator 61 Knows the system canachity thresholds of hulding dasses
			System methodology	02 knows are system depeting for energies of building classes
	FPBD inspections	Inspection of heating and AC systems	System methodology	02 knows the hasting successful Difficult (163555
	ci bo inspections	inspection of nearing and Ac systems	System methodology	cal Can explain the inconditioning system components to be inspected
			System methodology	De l'en explain de an-condume system components to de inspected
			System methodology	Up can explain the basis structure and content of an inspection report
	1		System metrouology	ou knows the criteria of now to become an energy enclency inspector

			System methodology	67	Knows the status of the energy performance reports
			Check	68	Knows how to check the content of documentation
	EPBD related standards for inspection		Check	69	Knows how to check the design documentation's complexity
			Check	70	Knows how to check the relevant operating documentation
			Check	71	Knows the major aspects of visual checking
			Pre-inspection methodology	72	Knows how to pre-inspect the designing works
		Scope	Pre-inspection methodology	73	Knows how to pre-inspect the related documents
			Pre-inspection methodology	74	Knows how to pre-inspect the system characteristics
			Pre-inspection methodology	75	Knows how to pre-inspect the operational tasks
			Pre-inspection methodology	76	Knows how to pre-inspect the maintenance work done
			Inspections methodology	77	Knows how to organise an energy inspection
			Inspections methodology	78	Knows how to inspect refrigeration/cooling equipment
			Inspections methodology	79	Knows how to control a smart metering solution
EPBD Background			Practical arrangements	80	Can explain the relevant documents to be produced after reporting
		D	Practical arrangements	81	Knows the required content of the relevant documentation
		Reporting	Practical arrangements	82	Knows how to handle the documentation
			Practical arrangements	83	Can identify the systems that are already inspected
			Practical arrangements	84	Can explain the responsibility of the personnel and organisation in charge of the inspection
			Modification and correction	85	Can explain the different methods to reduce the cooling load
		Improvements	Modification and correction	86	Can explain how to improve the energy efficiency with maintenance
			Modification and correction	87	Can evaluate the results of an energy efficiency inspection in relation to malfunctions
			Modification and correction	88	Knows the different, alternative system solutions
		Alternatives	Modification and correction	89	Knows the different, alternative subsystem solutions
			Modification and correction	90	knows the different, alternative components
			1 oois for proper inspection	91	Lan explain the criteria of proper functioning of outdoor heat rejection
		Checklists	Tools for proper inspection	92	Can explain the criteria for the proper functioning of indoor heat rejection
			Tools for proper inspection	93	Knows now to measure indoor air parameters
			loois for proper inspection	94	Can explain now to adjust the control parameters
			System	95	Can explain the different criteria of inspection classes of AC systems
		Inspection classes	Use	96	Knows how to estimate the annual running time
			Use	97	Knows how to estimate or define the date or installation
			ose	98	Knows now to identify the reingerant in the equipment
			Outcomes	99	Can explain advice or system changes
		Inspection frequency	Cabadulian	100	Can explain advice on the maintenance of a system
			Scheduling	101	can optimise the time to be taken or inspection from the maintenance records
			Bro inconstion checklists	102	Can optimise the time to be taken to inspection non-the balancing records
			Bro inspection checklists	103	Knows the pre-inspection tasks to be undertaken to their design parameters
			Pre-inspection checklists	104	Knows the pre-inspection tasks to be undertaken for checking the automatic data
			Pre-inspection checklists	105	Knows the pre-inspection tasks to be undertaken to define control zones
		Pre-inspection procedure	Pre-inspection checklists	100	Moves the pre-inspection tasks to be under taken for the control of pre-
			Pre-inspection checklists	107	Knows the pre-inspection tasks to be undertaken for half-only planteers
			Pre-inspection checklists	109	Knows the pre-inspection tasks to be taken on BMS & control systems
			Pre-inspection checklists	110	Knows the pre-inspection tasks to be undertaken for maintenance plans
			Pre-inspection checklists	111	Knows the pre-inspection tasks to be undertaken for energy supply
			Documentation	112	Can explain how to check building documentation
			Documentation	113	Can explain how to check HVAC documentation
			Documentation	114	Can explain how to check the cooling load calculation
			Indoor units	115	Knows how to check indoor unit airflow
	EPBD Telated hispection standards		Indoor units	116	Knows how to check the indoor unit cooling capacity
			Indoor units	117	Knows how to check the indoor unit control system
		Extent of inspection	Indoor units	118	Knows how to check the level of cooling energy emission system's maintenance
		Excert of hispection	Indoor units	119	Knows how to check the running hours
			Outdoor units	120	Knows how to check the proper location of an outdoor unit
			outdoor units	121	Knows how to check the cooling capacity of an outdoor unit
			Outdoor units	122	Knows how to check the proper calculation of COP
			outdoor units	123	Knows how to check the proper control solution for the outdoor unit
			Energy supply	124	Knows how to check and measure the energy supply
			Energy supply	125	Knows how to measure the power consumption
			Inspection checklist	126	Can explain how to prepare a proper inspection checklist
			Inspection checklist	127	Can explain how to prepare a proper design-inspection checklist
			Inspection checklist	128	Can explain how to prepare a proper documentation-inspection checklist
			Inspection checklist	129	Can explain how to prepare a proper refrigeration equipment inspection checklist
			Inspection checklist	130	Lan explain now to prepare a proper pipework and insulation inspection checklist
			Inspection checklist	131	Can explain how to prepare a proper outdoor heat exchanger inspection checklist
			Inspection checklist	132	Lan explain now to prepare a proper indoor heat exchanger inspection checklist
			Inspection Checklist	133	Lan explain row to prepare a proper in-space air delivery system inspection checklist
		Inspection procedure	Inspection Checklist	134	Can explain now to prepare a proper ducted an delivery system inspection cnecklist
		inspection procedure	Inspection checklist	135	Can explain now to prepare a proper an imake inspection checkist
			Inspection report	130	Can prepare an inspection report on obtainents
			inspection report	137	can prepare an inspection report on systems inspected

1			Inspection report	120	Can prenare an inspection report about the calculations needed
			Inspection report	120	Can prepare an inspection report about the carculations needed
			Inspection report	140	Can prepare an inspection report about energy efficiency
			Inspection report	140	Can prepare an inspection report about the faults to be renaired
			Inspection report	141	Can prepare an inspection report about the namononet to be repared
			Inspection report	1/12	Can prepare an inspection report about the components to be adjusted and repared
			Inspection report	143	Can prepare an inspectation report about the spacent die compared to be digitated, improved or mounted
			Reduction heatload	144	Can prepare an assignment of the date that share solutions
			Reduction heatload	145	Can prepare an estimation on how to reduce the solar gains
			Reduction heatload	140	Can prepare an estimation on how to reduce internargans
			Reduction heatload	147	Can prepare an estimation on how to reduce the power consumption with Controlled Institutes
			Reduction heatload	140	Can prepare an estimation on how to reduce the pooling load with concretion
			Reduction heatload	149	Can prepare an estimation on how to reduce the cooling load what concentration contained in the concentration of t
			Reduction heatload	150	Can prepare an estimation on how to reduce the power consumption by froe conting
			Reduction heatload	151	Can prepare an estimation on how to reduce the power consumption by the cooling
		Energy impacts	Improvement system efficiency	152	Can prepare an estimation on how to improve the energy afficiency by use of autophon cooling
			Improvement system efficiency	153	Ear prepare an estimation on how to improve the energy efficiency by improving the distribution efficiency
			Improvement system efficiency	154	Can prepare an estimation on how to improve the energy efficiency by improving the distribution efficiency
			Improvement system efficiency	155	Can prepare an estimation on how to improve the energy efficiency by improving the emission encodercy
			Check existing solutions	150	Can prepare an estimation of more comprove the energy enciency of improving the generating enciency.
			Check existing solutions	157	Knows new to check the exercise solution for failure of interbalation
			Check existing solutions	150	Knows how to check the existing solution for failure of fine tuning
			Check existing solutions	160	Knows how to check the existing solution for failures of the whole system
			Air bandling	161	Knows how to check the exacting solution to random sin the whole system.
			Air bandling	162	To available unit of a components of an Ac system
				162	Can explain the term of temperature
				163	Can explain the term we temperature
		Scope	Air handling	164	Can explain the Melline (ha) chart
				165	Can explain the women (in) chart is deadlines advanting
				166	Knows the parameters of online ent air cleanliness categories
				167	Knows the different methods of air intering
			Air nandillig	168	Can explain the methodology for EPBD inspections
			Design criteria	169	Knows the term of the man comfort
			Design criteria	170	Knows the criteria of thermal comfort zones
		Design	Design criteria	171	Can control if the design parameters are properly chosen
			Design criteria	172	Knows the meaning of energy efficiency
			Design criteria	173	Knows the optimal energy efficiency values of components
			Design criteria	174	Knows the criteria of acoustical comfort zones
			Design	175	Knows how to identify the physical parameters of a building construction
			Design	176	Knows how to identify the real demands of people
			Design	177	Can explain now to optimize the temperature levels
		Extent of inspection	Design	178	Can explain how to optimise the humidity levels
			Design	179	Can control the proper calculation of heat-load of personnel
			Design	180	Can control the proper calculation for the heat-load of appliances
			Design	181	Can control the proper calculation of heat-load
			Design	182	Knows the optimal setting points of controlled parameters
			Design documentation	183	Lan explain the basic structure of the design documentation
		Design documentation	Design documentation	184	Lan explain the basic structure of the execution documentation
			Design documentation	185	Knows the symbols used in HVAL drawings
			Design documentation	186	Knows the different kind of technical drawings
			Cooling Energy Distribution system (CED)	187	Lan explain the function of different cooling energy distribution systems
			Cooling Energy Distribution system (CED)	188	Lan explain the operation of different cooling energy distribution systems
			Cooling Energy Distribution system (CED)	189	Lan explain the structure of the retrigerant based air-conditioning systems
			Cooling Energy Distribution system (CED)	190	Lan explain the common structure of the water-chiller based air-conditioning systems
			Cooling Energy Distribution system (CED)	191	Lan explain the common structure or the air handling, unit based, air-conditioning systems
			Cooling Energy Distribution system (CED)	192	Knows the different types and behaviours of refrigerants
			Cooling Energy Distribution system (CED)	193	Knows the possible materials used in a water-based system
			Cooling Energy Distribution system (CED)	194	Knows the major components of the cooling energy distribution systems
			Cooling Energy Distribution system (CED)	195	Knows the role of the pumps and heat exchangers in the energy balance
			Cooling Energy Distribution system (CED)	196	Knows why a capacity control system should be used
Air Conditioning Background	EPBD related HVAC standards		Cooling Energy Distribution system (CED)	197	Can explain about variable medium volume systems and their advantages
			Cooling Energy Emission system (CEE)	198	Can explain the function of different cooling energy emission systems
			Cooling Energy Emission system (CEE)	199	Can explain the operation of different cooling energy emission systems
			Cooling Energy Emission system (CEE)	200	Knows the major components of cooling energy emission systems
		System components	Cooling Energy Emission system (CEE)	201	Knows the energy parameters and performance of evaporators
		.,	Cooling Energy Emission system (CEE)	202	Knows the energy parameters and performance of Fan Coils
			Cooling Energy Emission system (CEE)	203	Knows the energetic parameter and behaviour of surface cooling/heating
			Cooling Energy Emission system (CEE)	204	Knows why to use a capacity control system for cooling energy emissions
			Cooling Energy Generating system (CEG)	205	Can explain the function of natural cooling
			Cooling Energy Generating system (CEG)	206	Can explain the function of compressor-cycle refrigeration
			Cooling Energy Generating system (CEG)	207	Can explain the operation of absorption cooling
			Cooling Energy Generating system (CEG)	208	Knows the major components of cooling energy generating systems

	1	1	Cooline France Constraint system (CEC)	200	
			Cooling Energy Generating system (CEG)	209	Knows why to use a capacity control system for cooling energy generating systems
			Cooling Energy Generating system (CEG)	210	Knows the influence of the capacity control system for cooling energy generating systems on power consumption
			Cooling Energy Generating system (CEG)	211	Can explain several improvements in refrigerant system
			Cooling Energy Generating system (CEG)	212 (Can explain several improvements in water-based systems
			Cooling Energy Congrating system (CEG)	212	Can evel a improvements by an AHU based customs
			Cooling Energy Generating system (CEG)	213	can explain several improvements by an AHO-based systems
			Energy Supply system (ES)	214 0	Can explain the function of different cooling energy generating systems
			Energy Supply system (ES)	215	Can explain the operation of different cooling energy generating systems
			Energy Supply system (ES)	216	Knows why to use a capacity control system for an energy supply system
			Component identification	217	
			component identification	21/1	knows the terms and relevant components of subsystems
			Component identification	218	Knows the proper installation of a split unit evaporator
		AC automatication in disease	Component identification	219 0	Can explain the method for the proper use of refrigeration piping
		AC subsystems indicators	Component identification	220	Knows the proper installation of the split unit condenser
			Component identification	220	
				221 1	knows now to control the electric supply system
			Component identification	222 0	Can identify missing or incorrect components
			Tasks and operation	223 (Can explain which criteria are necessary for system conformity
			Tasks and operation	224 (Can explain which criteria are necessary for correct operation
			Tasks and operation	225	
				225 1	knows the function of a control system and the criteria of settings
			Tasks and operation	226	Knows the function of the system components and the fitting methodologies
			Energy	227 (Can explain how to measure and report the power inputs
		AC operation indicators	Energy	228	Can explain how to measure and report the energy outputs
			Operation	220	the measuring and according to the property of
			operation	229 1	knows the measuring and assessment methods for proper system operation
			Uperation	230 I	Knows the measuring and assessment methods for proper energy consumption
			Operation	231 0	Can explain the basic aspects and methodology of recommendations for the improvement of system efficiency
			Personnel certification	232	Knows the criteria and how to obtain the personnel certification in the FPBD inspection field
			Components and system commissioning	222	Con available the conjunct of events for complexication contracted by inspection into
			components and system commissioning	233 (can explain the sequence of events for commissioning procedures
			Temperature	234 H	Knows the SI units of temperature
			Temperature	235 H	Knows the different scales such as K, °F, °C
		Basic Units	Pressure	236	Knows the SL units of pressure
				2001	
			Pressure	2371	Knows the different scales such as Pa, mbar, psi,
			Density	238 H	Knows what happens with density when pressure changes
			Superheat	239 0	Can explain the term superheat
			Superheat	240	Knows where superheat is located on a log of h shart
			Superneat	240 1	Nows where superhears located on a log principal
			Superheat	241	Knows where superheat is located on a cooling unit
		Superheat	242 0	Can measure superheat.	
		Superheat	243	Knows why superheat is required	
			Superheat	244	
			superneat	244 1	Nows the disadvantages of supernear
			Subcool	245 (Can explain what subcool is
			Subcool	246 H	Knows where sub-cooling is located on a log p/h chart
			Subcool	247 (Can measure sub-cooling.
			Subrool	2/18	Knows the values normally required for sub-cooling
			5456001	2401	Knows the values normality required for sub-coming
			Subcool	249	Know why subcooling is important in a cooling circuit
			Enthalpy	250 H	Knows the units of enthalpy
			Enthalpy	251 H	Knows where enthalpy is located on a log p/h chart
			Enthalov	252	Knows what happens with enthalpy in the condenser
			Endiapy	252	Knows what happens white entralipy in the condense
			Enthalpy	253 1	knows what happens with enthalpy in the evaporator
			Enthalpy	254 H	Knows what happens with enthalpy in the compressor
			Enthalpy	255 H	Knows what happens with enthalpy along the suction line
			Enthalpy	256	Knows what happens with enthaloy when evaporation temperature drops
			Fatheless	257	An an and the part of the part of the second s
		Basic Refrigeration Terms	Enthalpy	2571	knows what happens when condensing pressure drops (enthalpy)
			Enthalpy	258 H	Knows what happens when sub-cooling increases
			Enthalpy	259 H	Knows what happens when superheat increases.
			Vapour quality	260	Can show vanour quality on a log p/h
			Vapour quality	261	Kenner hann underer angelike også bei improved
			vapour quality	2011	NIOWS NOW VAPOUL QUARTY CALL DE INIPROVED
			Superheated Section	262 H	Knows why superheated suction is needed
					Knows which device is responsible for the superheat
			Superheated Section	263 H	knows which device is responsible for the superneat
			Superheated Section Superheated Section	263 H	Knows common values for superhead surtion
			Superheated Section Superheated Section Europhysical Section	263 H	Knows common vertice is responsible for the supermate Knows common values for superheated suction Knows use the supermate user under the superheat suction sizes
			Superheated Section Superheated Section Superheated Section	263 H 264 H 265 H	Knows owned userse is regulatione for the superimeter Knows common values for superimeterated suction Knows what happens with energy consumption when superheat suction rises
			Superheated Section Superheated Section Superheated Section Superheated Section	263 H 264 H 265 H 266 H	Knows what happens with energy consumption when superheat suction rises Knows what happens with energy consumption when superheat suction rises Knows what happens with discharge temperatures when superheated suction rises.
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section	263 H 264 H 265 H 266 H 267 H	Knows owned verse superheated suction Knows common values for superheated suction Knows what happens with energy consumption when superheat suction rises Knows what happens with Gischarge temperatures when superheated suction rises. Knows what happens with GOP when superheated suction rises
			Superheated Section Superh	263 H 264 H 265 H 266 H 267 H	Knows owned better Separation for the Superheat Knows common values for superheated suction Knows what happens with discharge temperatures when superheat suction rises Knows what happens with COP when superheated suction rises Knows what happens with COP when superheated suction rises Knows have to measure DT
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature	263 H 264 H 265 H 266 H 267 H 268 H	Knows owned values for superheated suction Knows common values for superheated suction Knows what happens with energy consumption when superheated suction rises Knows what happens with GOP when superheated suction rises Knows have tappens with GOP when superheated suction rises Knows how to measure DT Cos and/all when DT Extended to the constraints
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature	263 H 264 H 265 H 266 H 267 H 268 H 268 H	Knows owmen device is regulation to will superheated suction Knows owmen values for superheated suction rises Knows what happens with discharge temperatures when superheated suction rises. Knows what happens with COP when superheated suction rises Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature
			Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature	263 264 265 266 267 268 269 270	Knows mind to the separation of the superheated suction Knows common values for superheated suction Knows what happens with energy consumption when superheat suction rises Knows what happens with discharge temperatures when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises
			Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharg	263 264 265 266 267 268 269 269 270 271	Knows ommon Values for superheated suction Knows common Values for superheated suction ises Knows what happens with discharge temperatures when superheated suction rises. Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheater rises Knows what happens with DT when superheater rises Knows what happens with DT when sub-cooling rises
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature	263 264 265 266 267 268 269 270 271 271	Knows ommon values for superheated suction Knows common values for superheated suction Knows what happens with discharge temperatures when superheat suction rises Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises Knows what happens with DT when superimetarises Knows what happens with DT when superimetarises Knows what happens with DT when suction creases decoding rises Knows
			Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharg	263 264 265 266 267 268 269 270 270 271 272	Knows ommon values for superheated suction rises Knows what happens with OP when superheated suction rises Knows what happens with OP when superheated suction rises Knows what happens with OP when superheated suction rises Knows what happens with OP when superheated suction rises Knows what happens with OT when superheated suction rises Knows what happens with OT when superheated suction rises Knows what happens with OT when superheated suction rises Knows what happens with OT when superheated suction rises Knows what happens with OT when superheated suction rises Knows what happens with OT when sub-cooling rises Knows what happens with O
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge	263 264 265 266 267 268 269 270 270 271 272 273	Knows ommon Values for superheated suction is superheated suction rises is superheated suction rises is superheated suction rises is superheated suction rises is superheated suction rises. It is superheated suction rises rises is superheated suction rises is superheated suctio
			Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Dischar	263 264 265 266 267 268 269 270 271 272 273 274	Knows ommon values for superheated suction Knows common values for superheated suction superheat suction rises Knows what happens with compensative temperatures when superheat suction rises. Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises Knows what happens with DT when superheat rises Knows what happens with DT when suction pressure drops Knows what happens with DT when suction pressure drops Knows what happens when Condensing pressure drops Knows what happens when compensing pressure drops Knows when LP is located in a refrigeration system
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Pressures Pres	263 264 265 266 267 268 269 269 270 271 272 273 274 274 275	Knows ommon Values for superheated suction values for superheated suction rises Knows what happens with discharge temperatures when superheated suction rises Knows what happens with COP when superheated suction rises Knows what happens with COP when superheated suction rises Knows what happens with DT when superheated suction rises Knows what happens with DT when superheated suction rises Knows what happens with DT when superheat rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when suction pressure drops Knows what happens with DT when suction pressure drops Knows what happens with DT when sub-cooling rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when suction pressure drops Knows what happens with DT when suction rises redrops Knows what happens right DT when sub-cooling rises Knows what happens right DT when sub-cooling rises Knows what happens right DT when sub-cooling rises Knows what happens with DT when suction rises right DT when suction rises right DT when suction rises right DT when sub-cooling rises Knows what happens with DT when suction rises right DT when suctin right DT when suction rises right DT when suction rises right
			Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Pischarge Temperature Pischarge Temperature Pressures Pr	263 264 265 266 267 268 269 270 271 271 273 273 274 275 276	Nows ommon values for superheated suction Knows ommon values for superheated suction Knows ommon values for superheated suction Knows what happens with core were superheated suction rises Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises Knows what happens with DT when superheat rises Knows what happens with DT when superheat rises Knows what happens with DT when superheat of core of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of core of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat of the supermature Knows what happens with DT when superheat the supermature Knows what happens with DT when superheat the supermature Knows what happens with DT when superheat the supermature Knows what happens when contensing pressure drops Knows what happens when contensing pressure drops Knows what happens when contensing pressure throps Knows what happens Knows when WP is located in a refrigeration system Knows where WP is located in a refrigeration system Knows when the superiment the compressor body Knows what happens Knows what happens Knows what happens Knows when the compressor body Knows what
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Picsares Pressures Pressure Pressu	263 264 265 266 267 268 269 270 271 272 273 274 275 276 277	Knows ommon Values for superheated suction Knows common Values for superheated suction rises Knows what happens with discharge temperatures when superheated suction rises. Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when sub-cooling rises Knows what happens with DT when suction pressure drops (Knows whet Papens with DT when suction pressure drops Knows whet Papens with DT when suction pressure drops (Knows what happens with DT when suction pressure drops Knows what happens when condensing pressure drops Knows what happens when condensing pressure drops Knows what happens when be condensing pressure drops Knows what happens happens when be condensing happens drops Knows what happens happens happens when be condensing happens drops
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Discharge Temperature Pressures Pressures Pressures Condensing Line	263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 276	Knows ommon values for superheated suction Knows ownawn values for superheated suction Knows what happens with discharge temperatures Knows ownawn happens with COP when superheated suction rises Knows what happens with COP when superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises Knows what happens with DT when suction pressure drops Knows what happens with DT when suction pressure drops Knows what happens with DT when suction system Knows what happens when condensing pressure drops Knows what happens when condensing pressure drops Knows what happens when condensing pressure drops Knows where LP is located in a refrigeration system Knows what happens with the cluid outside temperature Knows what happens with the cluid outside temperature for the compressor body Knows what happens with the CL if outside temperature rises
			Superheated Section Superheated Section Superheated Section Superheated Section Superheated Section Discharg Temperature Discharge Temperature Pressures Pressures Condensing Line Condensing Line	263 1 264 1 265 1 266 1 267 1 268 1 269 1 270 1 271 1 272 1 273 1 274 1 275 1 276 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1 277 1	Knows ommon values for superheated suction Knows common values for superheated suction rises Knows what happens with discharge temperatures when superheated suction rises. Knows what happens with OT When superheated suction rises Knows how to measure DT Can explain why DT is higher than condensing temperature Knows what happens with DT when superheat rises Knows what happens with DT when sub-cooling rises Knows what pressure is most likely measured in the compressor body Knows what happens with the CL if outside temperature rises Knows what happens with the CL if there's air is in the system

			Condension Line	200	Con available where the discovery backed and in the stand
			Condensing Line	280	Can explain where the de-superneated region is located
			Condensing Line	281	Can locate the discharge temperature
			Condensing Line	282	Can explain what happens with the CL when there's an extreme pressure drop across the discharge line
			Condensing Line	283	Can explain what happens with the CL when there's an extreme pressure drop across the liquid line
			Condensing Line	284	Can explain what happens with the CL when the liquid receiver is installed higher than the expansion device
			Condensing Line	285	Can explain what happens with the CL when outside temperature rises
			Condensing Line	286	Can explain what happens with the CL when a system is overfilled
	Basic Thermodynamics		Condensing Line	200	Can explain methoppens with the Cluster is offering a
			Condensing Line	207	can explain what happens with the cluster the condenser gets clogged
			Condensing Line	288	Can explain what happens with the CL when a fan on the condenser fails
			Evaporator Line	289	Can explain the EL
			Evaporator Line	290	Knows what happens with the EL if cold-room temperature rises
			Evaporator Line	291	Knows what happens with the EL if the coil freezes up.
			Evaporator Line	292	Can explain what happens if the cold-room temperature decreases (freezer)
		Log p/h (Refrigerant graph, some call it Mollier chart)	Evanorator Line	293	Can locate the leaving temperature of the evanorator
			Evaporator Line	204	Can notate the leaving temperature of the evaporation
				2.54	can explain what happens with the converting a pressure drop over the evaporation
			Evaporator Line	295	Can explain what happens with the EL when there's a pressure drop across the suction line
			Evaporator Line	296	Can explain what happens with superheat if the expansion valve looses its charge
			Evaporator Line	297	Can explain what happens if the speed/capacity of compressor is reduced
			Evaporator Line	298	Can explain what happens with superheat if a system looses refrigerant
			Expansion Line	299	Can explain where the expansion line is located
			Expansion Line	300	Can explain what happens during expansion
			Compression Line	301	
			Lines on long of	202	Can indexe the compression line
			Lines on log p/n	302	can explain and locate pressure lines
			Lines on log p/h	303	Can explain and locate temperature lines
			Lines on log p/h	304	Can show the location of sub-cooled liquid
			Lines on log p/h	305	Can show where the 2-phase region is located
			Lines on log p/h	306	Can show the location of saturated gas
			Lines on log n/h	307	Can show the location of superheated eas
				209	Can show the location of superheated gas
			Lines on log p/n	308	Kilows the mass unit for which the entrality is related in the Log p/n diagram
		Refrigerant Tables	Refrigerant Tables	309	Knows that the tables are for saturated conditions only
			Refrigerant Tables	310	Knows where the enthalpy table is located
			Scheme of Compression Cycle	311	Knows where the filter/dryer is located in a circuit
			Scheme of Compression Cycle	312	Knows the purpose of the filter/dryer
			Scheme of Compression Cycle	313	Knows where the compressor is located in a circuit
			Scheme of Compression Cycle	314	Knows the purpose of the compressor
			Schame of Compression Cycle	215	The set of the project of the set
		Scheme of Compression Cycle	scheme of compression cycle	315	knows where the liquid receiver is located in a circuit
			Scheme of Compression Cycle	316	knows the purpose of the liquid receiver
			Scheme of Compression Cycle	317	Knows where the sight-glass is located in a circuit
			Scheme of Compression Cycle	318	Knows the purpose of a liquid separator
			Scheme of Compression Cycle	319	Knows where the evaporator is located
			Scheme of Compression Cycle	320	Knows the purpose of the evaporator
			Scheme of Compression Cycle	321	Knows where the condenser is located
			Scheme of Compression Cycle	322	Knows the nurnose of the condenser
Refrigeration background			Scheme of Compression Cycle	222	
Refigeration background			Scheme of Compression Cycle	323	Can indicate on the circuit where a technician must measure different temperature and pressures
			Scheme of Compression Cycle	324	Can place operating conditions of pressure and temperature on the circuit for a common cooling system
			Scheme of Compression Cycle	325	Can place operating conditions of pressure and temperature on the circuit for a common freezing system
			Scheme of Compression Cycle	326	Can place operating conditions of pressure and temperature on the circuit for a common air-con system
			Design Pressure	327	Can explain the term design pressure
			Design Pressure	328	Knows how to perform/calculate/define a design test
			Strength pressure tests	329	Knows how to perform a strength pressure test
			Leakage pressure test	330	Knows how to perform a leakage pressure text
			Lealure pressure test	224	Another to perform a rounge pressure test
			Leakage checking	331	knows the nequency of leakage checking
			Leakage checking	332	knows now to perform a direct leakage check (EC1516/2007)
		Different kinds of pressure and/or tests	Leakage checking	333	Knows how to perform an indirect leakage check (EC1516/2007)
			Leakage checking	334	Knows what papers need to filled in after a leakage check
			Leakage checking	335	Knows what qualification the controller needs to perform leakage check
			Vacuum Pressure	336	Knows the difference between absolute and relative pressure
			Vacuum Pressure	337	Knows what happens if VP rises and stabilizes afterwards
			Vacuum Pressure	338	Knows what hannens if VP rises continuously
			Vacuum Droccuro	220	Course the science are stated with a secure rest as a securing to EN272 (2009
			Vacuum messule	339	NIOWS the Criteria parameters of the Vacuum-pressure test according to ENS/8/2008
			Pressure vessel (component under pressure)	340	knows the 5 major components or a refrigeration circuit
			Compressor	341	Can explain the function of the compressors in refrigeration circuit
			Compressor	342	Knows the different type of compressors
			Compressor	343	Knows what happens to the refrigerant inside the compressor
			Compressor	344	Knows the proper lubrication system (compressor)
		RAC basics-System	Evaporator	345	Can explain the function of the evaporator in refrigeration circuit
			Evaporator	3/16	Knows what hanners to the refrigerant inside the evanorator
			Evaporation Expansion dovices	247	Nows which represents to the reference of the second dot
			Expansion devices	347	Nilows ure unier ein cype 01 LAS
			Expansion devices	348	knows now to adjust 1X valves
			Condenser	349	Can explain the function of the condenser in refrigeration circuit
	1		Condenser	350	Knows what happens to the refrigerant inside the condenser

Components of retrigerating systems		Luderlands a success	254	
components of reingerating systems		Lubrication system	351	Can explain the function and importance of the iubrication system
	Additional system components	Lubrication system	352	Knows the behaviour of the oil and refrigerant mixture
		Capacity control	353	Can explain the various sorts of capacity control solutions
		Liquid receiver	35/	Knows the different methods used to monitor the liquid level in the circuit inside
		Elquid receiver	354	knows the different methods used to monitor the indian lever in the circuit inside
		Liquid separator	355	Can explain the methods used to define the charge of LS
		RAC circuit installation	356	Can explain the importance of horizontal and vertical positioning
		Leakage test (tightness pressure test)	357	Can explain how to find the leaks
	Working procedures	Vocuum tost	250	
	working procedures	Vacuum test	220	can explain the role and proper target of the vacuum test
		Vacuum test	359	Knows how to brake the vacuum at the end of the vacuum test
		Charge of refrigerant	360	Can define the type and quantity of additional oil needed
		Fill in all the legal required documents and certificates	361	Knows how to complete commissioning documents
	Administration	This is an area control of the second of the	501	the show to complete commanding according
		Fill in all the legal required documents and certificates	362	Knows how to complete servicing and maintenance documents
		Types of piping	363	Knows the type of pipes used for cooling system
		Types of piping	364	Knows the types of materials, sealing and welding techniques used for NH3 refrigeration.
		Installing piper	265	
		Installing pipes	202	knows now to install discharge Lines
		Installing pipes	366	Knows how to install suction lines
	Pipes (Only copper pipes)	Installing pipes	367	Knows to install liquid lines
		Installing piper	269	Know have a make T lights on a liquid line
		ilistalling pipes	308	
		Installing pipes	369	Knows how to make T-joins on a suction line
		Installing pipes	370	Knows how lines must be supported according to EN378/2008
		Installing nines	371	Knows when and where oil-sinhons must be installed
		installing pipes	070	kitows where and where on-signors must be instaned
Piping and joints		Joints	372	Can explain what happens with a rubber gasket when a system is retrofitted from R22 to R404A
1 0 1 1	Joints (Seals, gaskets,)	Joints	373	Knows what happens with a rubber when R404A is used in the system
		loints	374	Knows what happens with a rubber when R22 is used in the system
		Vehice	374	
	Valves (Open - Close valves, non- regulating ones)	valves	3/5	Can explain the operation of a ball valve
		Valves	376	Knows that certain valves have a flow direction
		Thermal insulation	377	Knows the different types of insulation
		Theorem Line station	270	
		Thermal Insulation	5/6	can explain the initiative of pipe temperature
	Thermal insulation (Like armaflex)	Thermal insulation	379	Can explain the influence of humidity
		Thermal insulation	380	Can explain the term vapour diffusion
		Thermal insulation	381	Can explain how joints between insulation are made
	D1 . C		301	Can explain flow joints between instruction are made
	Pipe Supports	Pipe Supports	382	Knows about the existence of pre-insulated pipe supports
		Max. allowed pressure	383	Knows what is max. allowed pressure with air-cooled systems
		Max allowed pressure	384	Knows what is may, allowed pressure with water-rooled systems
	Pressure safety	Deserves selief velue	205	Normality many showed pressive with water cover systems
		Pressure relief valve	385	knows the function of a pressure relief valve
		Bursting disc	386	Knows the function of a bursting disc
	Pressure safety	Safety switching device for limit, press.	387	Knows the function of a safety switch device for limiting pressure
Safety accessories	Pressure safety	Safety switching device for limit, press.	387	Knows the function of a safety switch device for limiting pressure
Safety accessories	Pressure safety	Safety switching device for limit. press. Type appr. pressure cut out	387 388	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out
Safety accessories	Pressure safety	Safety switching device for limit. press. Type appr. pressure cut out Type appr. safety pressure cut out	387 388 389	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out
Safety accessories	Pressure safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection	387 388 389 390	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of surge protection
Safety accessories	Pressure safety	Safety switching device for limit, press. Type appr, pressure cut out Type appr, safety pressure cut out Surge protection Limit leave cut out	387 388 389 390 391	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a single protection Knows the function of a limit and cut out
Safety accessories	Pressure safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out	387 388 389 390 391	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of surge protection Knows the function of a liquid level cut out
Safety accessories	Pressure safety Refrigerant safety	Safety switching device for limit, press. Type appr, pressure cut out Type appr, safety pressure cut out Surge protection Liquid level cut out Refrigerant detector	387 388 389 390 391 392	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of surge protection Knows the function of a liquid level cut out Knows the function of a refrigerant detector
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device	387 388 389 390 391 392 393	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a terrigeranture limiting device
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Befrigerant	387 388 389 390 391 392 393 394	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a temperature limiting device Can evaluate the function of a temperature limiting device Can evaluate the function of the
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Bofiziorant	387 388 389 390 391 392 393 393 394	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a terrigerant in the refrigeration system Can explain the function of refrigerant in the refrigeration system
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant	387 388 389 390 391 392 393 394 395	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of surge protection Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Can explain the function of a refrigerant in the refrigeration system Knows the Personal Protective Equipment required to conduct work with refrigerants
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Refrigerant Refrigerant	387 388 389 390 391 392 393 394 395 396	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a temperature limiting device Can explain the function of refrigerant in the refrigeration system Knows the Personal Protective Equipment required to conduct work with refrigerants Knows the Classification or refrigerant types defined by EN378
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium	387 388 389 390 391 392 393 394 395 396 397	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a uppe approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Can explain the function of refrigerant in the refrigeration system Knows the Pressonal Protective Equipment required to conduct work with refrigerants Knows the classification of refrigerant types defined by EN378 Knows the classification of refrigerant types defined by EN378
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Refrigerant Refrigerant Refrigerant Refrigerant Heat transfer medium Heat transfer medium	387 388 389 390 391 392 393 394 395 396 397	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a temperature limiting device Can explain the function of refrigerant in the refrigeration system Knows the various mediums to and frequent to conduct work with refrigerants Knows the various mediums to and from which heat can be transferred Con central evilable orderinger to force refrigerant
Safety accessories	Pressure safety Refrigerant safety Temperature safety	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium	387 388 389 390 391 392 393 394 395 396 397 398	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a singe protection Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant teletoro Can explain the function of refrigerant in the refrigeration system Knows the Prostocitive Equipment required to conduct work with refrigerants Knows the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific applications
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. spressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity 	387 388 389 390 391 392 393 394 395 396 397 398 399	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the various and Protective Equipment required to conduct work with refrigerants Knows the various the andium to an of refrigerant on the refrigeration system Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific applications Knows the various mediums to and from specific refrigerants Knows the various mediums to and from the various K
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity Flammability	387 388 389 390 391 392 393 394 395 396 397 398 399 399	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the Personal Protective Equipment required to conduct work with refrigerants Knows the Protective Equipment required to conduct work with refrigerants Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant for specific applications Knows the health and safety regulations relating to specific refrigerants Knows the working procedures with refrigerants datafields Knows tailow working procedures with refrigerants datafields flammable
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Refrigerant Heat transfer medium Heat transfer medium Heat transfer medium Fiammability Fiammability Fiamtion	387 388 389 390 391 392 393 394 395 396 397 398 399 400 401	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Knows the function of refrigerant in the refrigeration system Knows the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific applications Knows the various mediums to and from specific refrigerants Knows the various mediums to safet to presclific applications Knows the various safe working procedures with refrigerants these refrigerants Knows safe working procedures with refrigerant to the specific refrigerants Knows safe working procedures with refrigerant to the refrigerants Knows the working procedures with refrigerants Knows the working procedures with refrigerant to the refrigerants Knows the working procedures with refrigerants Knows the working transfering to a procedure with working procedures with refrigerants Knows the working procedures with refrige
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Outline of enformedia	387 388 389 390 391 392 393 394 395 396 397 398 399 400 402	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the Prostocial cut of the territorial cut out cut work with refrigerants Knows the Prostocial cut out Knows the Prostoci
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant	387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the classification of refrigerant ruppes defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific refrigerants Knows the various mediums to can form which heat can be transferred Knows the waiting and safety regulations relating to specific refrigerants Knows sele working procedures with refrigerants classified as flammable Knows where and what fractionation can occur in the refrigeration system Knows to a void contamination whilst working on a system
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Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. safety pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant diedector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant Quality of refrigerant Recover Recover Recover Recove	387 387 388 389 390 391 392 393 393 394 395 396 395 397 398 399 400 401 402 403 404 405 406 406	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the various mediums to and from which heat can be transferred Can setplain theil refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can setplain tailable refrigerant for specific applications Knows the various mediums to and from system Knows the various mediums to and from specific refrigerants Knows the various mediums to and from specific refrigerants Knows safe working procedures with refrigerant classified as flammable Knows whe various mediation can occur in the refrigerant system Knows how to avoid contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to recover refrigerant tafely with minimum loss Knows how to test the refrigerant for addity Knows how to test the refrigerant for addity
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms	Safety switching device for limit, press. Type appr. pressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Heat transfer medium Heat transfer medium Quality of refrigerant Quality of refrigerant Quality of refrigerant Recover Recover Recover Recover Recycle Bactaine Mathematical Statematical Statemat	387 387 388 390 391 392 393 393 394 395 396 397 398 399 399 400 401 402 402 403 404 405 406 407	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Can explain the function of refrigerant in the refrigeration system Knows the various mediums to and from which heat can be transferred Can suble various mediums to and from which heat can be transferred Can suble refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can suble refrigerant for specific applications Knows the various mediums to and from system Knows the various do contamination the refrigerants Knows there and what fractionation can occur in the refrigerants Knows the various contamination in refrigerant Knows to test for contamination in refrigerant Knows how to to test for contamination in refrigerant Knows how to to test for contamination in refrigerant Knows how to to test the refrigerant for sackify Knows how a refrigerant is recycled Knows how a refrigerant is recycled Knows how a refrigerant is recycled
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Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms B. units	Safety switching device for limit, press. Type appr. stesure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant Quality of refrigerant Recover	387 388 389 390 391 392 393 394 395 396 400 401 402 400 400 400 400 400 400 400 400 400	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refigerant detector Knows the function of a refigerant detector Knows the function of a refigerant detector Knows the function of a refigerant in the refigeration system Knows the classification of refrigerant system Knows the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can setta suitable refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can setta suitable refrigerant to specific applications Knows the various mediums to and from which near the start of system Knows the various mediums to and from specific applications Knows the various mediums to and from which near the start specific applications Knows the various mediums to and from which near the start specific refrigerants Knows shew othing procedures with refrigerant classified as flammable Knows how to stafe contamination ran orcer in the refrigerants Knows how to test for contamination and system Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to test the refrigerant for acidity Knows how to test the refrigerant for acidity Knows how to conduct the process of reclamation Knows hey application of a refrigerant Can use a refrigerant manifold to determine the start of condensing and evaporation Can explain the major components of split/multi-split systems Can explain the major components of split/multi-split systems Can explain the major components of split/multi-split systems
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms B. units	Safety switching device for limit, press. Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant Quality of refrigerant Quality of refrigerant Quality of refrigerant Recover Recover Recover Recover Recover Recole Reclaim Disposal Disposal Bubble and dew point Bubble and dew point Bubble and dew point Major components Major components Major components	387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 402 403 402 404 404 405 406 407 408 400 401 411 412 415	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the function of refrigerant in the refrigeration system Knows the function of refrigerant in the refrigeration system Knows the various mediums to and from which heat can be transferred Can explain the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant types defined by EN378 Knows the various mediums to and from specific refrigerants Knows the various mediums to and from system Knows the various mediums to and from system Knows the various mediums to and from system the refrigerants Knows the various mediums to and from system (stransferred Knows where and what fractionation can occur in the refrigerants Knows here and what fractionation and occur in the refrigerant system Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to recover refrigerant safely with minimum loss Knows how to recover refrigerant safely with minimum loss Knows how to recover refrigerant safely with minimum loss Knows how to test the refrigerant for addity Knows how to recover refrigerant for addity Knows how to recover refrigerant to addity Knows how to recover refrigerant to addity Knows how to recover refrigerant to addity Knows how to recover refrigerant for addity Knows how to recover refrigerant to reduce the process of reclamation Knows the reason for disposal of a refrigerant Can exe patin the major components of Split/mult-sp
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms B. units	Safety switching device for limit, press. Type appr. stesure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Refrigerant detector Refrigerant modifier Heat transfer medium Heat transfer medium Fractionation Quality of refrigerant Recover Recover Recover Recover Reclaim Disposal Bubble and dew point Major components Major components Major components	387 388 389 390 391 392 393 393 394 395 396 400 401 402 403 397 400 401 402 403 404 405 406 407 404 405 406 407 410 411 412 413 414 416 416 416 416 416 416 416 416 416	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refigerant detector Knows the function of a refigerant detector Knows the function of a refigerant detector Knows the function of a refigerant in the refigeration system Knows the classification of refrigerant system Knows the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can setta suitable refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can setta suitable refrigerant to specific applications Knows the various mediums to and from which near the start of system Knows the various mediums to and from specific applications Knows the various mediums to and from which near the start start start Knows stew orking procedures with refrigerants Knows stew orking procedures with refrigerant classified as flammable Knows how to ste for contamination an occur in the refrigerants Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to test the refrigerant for acldity Knows how to test the refrigerant for acldity Knows how to conduct the process of reclamation Knows the process involved in disposal of a refrigerant Can use a refrigerant manifold to determine the start of condensing and evaporation Can explain the major components of split/multi-split systems Can explain the major components of split/mu
Safety accessories	Pressure safety	Safety switching device for limit, press. Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant Quality of refrigerant Quality of refrigerant Quality of refrigerant Recover Recover Recover Recover Recover Recover Recole Reclaim Disposal Disposal Bubble and dew point Bubble and dew point Major components Major components Major components Major components Major components	387 388 389 390 391 392 393 394 395 396 401 402 403 402 403 402 403 404 404 405 406 407 408 407 408 401 411 412 415 416 417 417	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Can explain the function of refrigerant in the refrigeration system Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific refrigerants Knows ther and what fractionation can occur in the refrigerants Knows hever and what fractionation and occur in the refrigerant Knows how to test for contamination in refrigerant Knows how to recover refrigerant safely with minimum loss Knows he reason for disposal of a refrigerant Knows he varion of a determine the start of condensing and evaporation Knows he reason for disposal of a refrigerant Knows hew to cover refrigerant safely with minim
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms B. units	Safety switching device for limit, press. Type appr. spressure cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant Quality of refrigerant Recover Recove	387 388 389 390 391 392 393 393 394 400 401 402 403 397 400 401 402 403 400 407 401 402 403 401 402 403 401 402 403 404 404 405 406 407 407 407 407 407 407 407 407 407 407	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refiregrant detector Knows the function of a refiregrant detector Knows the function of a refiregrant detector Knows the function of a refiregrant in the refiregration system Knows the source Equipment required to conduct work with refrigerants Knows the various mediums to and from which heat can be transferred Can septal a suitable refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant tor specific applications Knows the various mediums to and from specific applications Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant to specific applications Knows the various mediums to and from which medicates a flammable Knows shew to avoid contamination an occur in the refrigerants Knows how to stel for contamination an occur in the refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to test of contamination in refrigerant Knows how to test the refrigerant for acidity Knows how to conduct the process of reclamation Knows how to conduct the process of reclamation Knows how to conduct the process of reclamation Can use a refrigerant manifold to determine the start of condensing and evaporation Can use a refrigerant manifold to determine the start of condensing and evaporation Can use a refrigerant manifold to determine the start of condensing and evaporation Can explain the major components of split/multi-split systems Can explain the major components of spl
Safety accessories Fluids	Pressure safety	Safety switching device for limit, press. Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Heat transfer medium Heat transfer medium Heat transfer medium Toxicity Flammability Fractionation Quality of refrigerant Quality of refrigerant Quality of refrigerant Quality of refrigerant Quality of refrigerant Recover Recover Recover Recover Recole Reclaim Disposal Bubble and dew point Bubble and dew point Bubble and dew point Major components Major components	387 388 389 390 391 392 393 393 393 393 393 393 393 393 393	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Can explain the function of refrigerant in the refrigeration system Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant sciencitic applications Knows the various mediums to and from which near the refrigerants Knows there and what fractionation can occur in the refrigerants Knows the various on duct cut maintation in refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to recover refrigerant for addity Knows how to conduct the process of reclamation Knows how to could cut particutes of trefrigerant Kn
Safety accessories	Pressure safety	Safety switching device for limit. press. Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Refrigerant detector Refrigerant number Heat transfer medium Heat transfer medium Fractionation Quality of refrigerant Recover Recover Recover Recover Recover Reclaim Disposal Disposal Major components Major components </td <td>387 388 389 390 391 392 393 393 394 400 401 402 403 400 401 402 403 400 404 405 400 401 402 400 401 402 400 401 402 400 401 402 400 401 402 402 402 402 402 402 402 402 402 402</td> <td>Knows the function of a safety switch device for limiting pressure Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant for specific applications Knows the various mediums to and from which near to specific applications Knows hew to avoid contamination an occir in the refrigerants Knows how to solid contamination an oxcir in the refrigerant specific refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to conduct the process of reclamation Knows how to conduct the process of reclamation Knows how to conduct the process of reclamation</td>	387 388 389 390 391 392 393 393 394 400 401 402 403 400 401 402 403 400 404 405 400 401 402 400 401 402 400 401 402 400 401 402 400 401 402 402 402 402 402 402 402 402 402 402	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the classification of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant for specific applications Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant for specific applications Knows the various mediums to and from which near to specific applications Knows hew to avoid contamination an occir in the refrigerants Knows how to solid contamination an oxcir in the refrigerant specific refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to conduct the process of reclamation Knows how to conduct the process of reclamation Knows how to conduct the process of reclamation
Safety accessories	Pressure safety	Safety switching device for limit, press. Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Temperature limiting device Refrigerant Refrigerant Refrigerant Heat transfer medium Heat transfer medium Guality of refrigerant Quality of refrigerant Quality of refrigerant Quality of refrigerant Recover Recover Recycle Disposal Disposal Bubble and dew point Major components Major components <	387 388 389 390 391 392 393 393 393 393 393 393 393 400 401 402 403 404 405 406 407 402 403 404 401 401 401 401 401 401 401 401 401	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a liquid level cut out Knows the function of a refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the various mediums to and from which heat can be transferred Can septial the refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can select a suitable refrigerant for specific refrigerants Knows ther avoids ontamination values opsculic refrigerants Knows where and what fractionation can occur in the refrigerant system Knows how to best for contamination in refrigerant Knows how to recover refrigerant safely with minimum loss Knows he reason for disposal of a refrigerant Knows he reason for disposal of a refrigerant Knows he reason for disposal of a refrigerant Knows how to coutcut the process of reclamation Knows how to coutcut the process of reclamation Knows how to coutcut the proces
Safety accessories	Pressure safety Refrigerant safety Temperature safety B. refrigeration terms B. units	Safety switching device for limit: press. Type appr. stare cut out Type appr. safety pressure cut out Surge protection Liquid level cut out Refrigerant detector Refrigerant net Heat transfer medium Heat transfer medium Fractionation Quality of refrigerant Recover Recover Recover Recover Recover Reclaim Disposal Disposal Major components Major components <	387 388 389 390 391 392 393 393 394 400 401 402 403 400 401 402 403 400 404 405 400 401 402 400 401 402 400 401 402 400 401 402 400 401 402 400 402 400 402 400 402 402 402 402	Knows the function of a safety switch device for limiting pressure Knows the function of a type approved safety pressure cut out Knows the function of a type approved safety pressure cut out Knows the function of a liquid level cut out Knows the function of a temperature limiting device Can explain the function of refrigerant detector Knows the function of a refrigerant in the refrigeration system Knows the various nediums to and from which heat can be transferred Can explain the function of refrigerant types defined by EN378 Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant top specific applications Knows the various mediums to and from which heat can be transferred Can selet a suitable refrigerant sclassified as flammable Knows hear with refrigerants classified as flammable Knows how to avoid contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to test for contamination in refrigerant Knows how to conduct the process involved in disposal of a refrigerant Knows he process involved in disposal of a refrigerant Knows he process involved in disposal of a refrigerant Knows he propertise, refrigerant test of condensing and evaporation Understands the concept of glide <

	1		Major components	122	Can explain the role and positioning of an indoor unit
			Major components	122	Can explain the approximation of the evaporator
			Major components	423	Can explain the energed optimisation of the evaporation
			Major components	424	Knows the construction and energed aspects of war-mounted indoor units
		Cooling Energy Emission System	Major components	425	Knows the construction and energetic aspects of central mounted indoor units
	Torms and definitions	cooling Energy Emission System	Major components	426	Knows the construction and energetic aspects of ran coli units
	Ternis and demitions		Operation	427	Can explain the different capacity control of an indoor unit
			Operation	428	knows the energetic impacts of leaked retrigerants
			Operation	429	Can define and control the optimal pressure values of the refrigeration circuit
			Operation	430	Can define and control the optimal temperature values of the refrigeration circuit
			Major components	431	Can explain the role and positioning of an outdoor unit
			Major components	432	Can explain the energetic optimisation of the condenser
			Operation	433	Can explain the energetic aspects of the different capacity controls of the outdoor unit
		Cooling Energy Generating System	Operation	434	Can explain and use term COP
			Operation	435	Can explain and use term EER
			Operation	436	Can explain and use term ESEER
			Operation	437	Can explain and calculate the TEWI value
			Major components	438	Can explain the power supply system of electric driven HVAC systems
		Energy Supply System	Major components	439	Can explain the power supply system of natural gas-driven HVAC systems
		Energy supply system	Operation	440	Knows the metering methods of power consumption
			Operation	441	Knows the documentation methods of power consumption
			Pre-inspection checklists	442	Can explain the major steps of pre-inspection procedure
			Pre-inspection checklists	443	Knows how to define control parameters
			Pre-inspection checklists	444	Can explain the content and use of a balancing plan
			Pre-inspection checklists	445	Can identify the control and BMS systems
			Pre-inspection checklists	446	Can explain the content and use of a maintenance plan
			Visual check	447	Can explain the maior steps of visual check procedure
		Pre-inspection procedure	Visual check	448	Knows the minimum documents required on site
			Visual check	449	Knows how to visually check the proper installation of refrigerant nining
			Visual check	450	Knows how to visually check for the proper instantiation or reingerant piping.
			Visual check	451	Knows how to visually check the insulation of refrigerant nining
			Visual check	452	Can explain how and what to check in maintenance documentation
			Visual check	152	Can a spanning and the second se
			Visual check	454	Knows the minimum content of the logoout
			Inspection classes	455	Can active the annual running time
		Classification	Inspection classes	456	Can explain the innertion classes of AC colutions
			Minimum requirements	457	Can explain the inspection classes of net solutions
		Inspection frequency	Minimum requirements	458	Knows how to define the issociation frequency
			Outcome of the inspections	450	Knowshow to define the inspection mediately
			Outcome of the inspections	439	Can give advices on how to improve the system enciency
		Inspection procedure	Dra inspection shocklists	400	Can give address of now to improve the manner ance of a system
		Inspection procedure	Pre-Inspection checklists	401	Knows now to estimate the cooling load
			Documentation	402	Can identify the pin and the pin of the building for calculation of the nearboad
			Documentation	405	Can benefit the air-conditioning systems in the building
			Design data/facts	404	know how to define the motor parameters
			Design data/facts	465	knows the numan temperature comfort zone
	Energetic inspection		Design data/facts	466	Knows the numan humidity comfort zone
Defeirement besed surfaces	Ellergetic Inspection		Design data/facts	467	Can estimate the heatoad of personnel
Retrigerant based systems			Design data/facts	468	Can estimate the heatload of appliances
		Extend of increasing	Design data/facts	469	Can estimate the outdoor heatload
		Extent of inspection	Split indoor unit	470	Can measure the airflow quantity of an indoor unit
			Split indoor unit	471	Can determine the cooling capacity of an indoor unit
			Split indoor unit	472	knows now to control the adjustment of the control system
			Split indoor unit	473	Can control the level of maintenance
			Split outdoor unit	474	Knows the installation criteria for an outdoor unit
			Split outdoor unit	475	Can calculate the COP/EER value of the system
			Split outdoor unit	476	Can adjust the control parameter on site
			Split outdoor unit	477	Knows the definition for the proper steps and frequency of maintenance
			Electric supply	478	Knows how to measure the consumption of electric supply
			System components	479	Can explain the major steps of inspection procedure
			System components	480	Knows how to prepare an onsite checklist for a dedicated application
			System components	481	Can check the major cooling components of the application
			System components	482	Can explain which parameters of the refrigeration circuit are relevant for energetic optimisation
		Inspection procedure	System components	483	Knows how to inspect an outdoor unit
			System components	484	Knows how to inspect an indoor unit
			System components	485	Knows how to control the proper air distribution in a treated area
			System components	486	Knows how to adjust the control systems
			System components	487	Knows how to check the energy distribution system
			System components	488	Knows how to control the real temperature, humidity, velocity in a treated area
			to see a state of the state of	190	Can explain the basic data for design works
			Inspection checklists	405	
		Inspection content	Inspection checklists	490	Can check and evaluate the design documentation
		Inspection content	Inspection checklists Inspection checklists Inspection checklists Inspection checklists	490 491	Can check and evaluate the design documentation Can check the proper sizing of refrigeration equipment

		Precautionary arrangements	Preparing inspection reports	493	Knows the major aspects for the evaluation of inspections
			Preparing inspection reports	494	Knows how to describe the improvements
			Preparing inspection reports	495	Knows how to propose alternative solutions
			Preparing inspection reports	400	Knows new to propose arcmater solutions
			Preparing inspection reports	496	knows now to list the documents that should needed to inspection
			Creation of inspection report	497	Knows how to describe the systems that have been inspected
			Creation of inspection report	498	Knows how to describe the results of inspections
			Creation of inspection report	499	Knows the energy impact related calculation methods
			Creation of inspection report	500	Knows how to describe the measured parameters of energy supply
		Descriptions	Creation of inspection report	500	Knows how to describe the measured parameters of energy supply
			Creation of inspection report	501	knows now to estimate energy enciency
			Creation of inspection report	502	Knows how to determine faults to be repaired
			Creation of inspection report	503	Knows how to determine faults to be adjusted
			Creation of inspection report	504	Knows how to determine faults to be improved or modified
			Reducing cooling needs	505	Knows the solutions for how to reduce solar gains
			Boducing cooling poods	506	how to reduce internal gains
			Deducing cooling needs	500	Knows now to reduce internal gallishing suctors as heatlesd
			Reducing cooling needs	507	knows the impact of a controlled lighting system on neatload
	Inspection report		Reducing cooling needs	508	Knows the way to reduce the heatload of IT equipment
			Reducing cooling needs	509	Can explain the advantages of proper ventilation
		Energy impacts	Improving system efficiency	510	Can explain the advantages and use of free cooling
			Improving system efficiency	511	Can explain the need of ventilation by using outdoor air
			Improving system efficiency	512	Knows how to improve emission efficiency
			Improving system efficiency	E12	Notes how to import the solution interaction of fision of the solution of the
			Improving system enclency	515	knows now to improve the distribution enciency
			Improving system efficiency	514	Knows now to improve cooling energy generating efficiency
			Checks existing solutions	515	Can explain how to check installation and fine tuning
			Improvements	516	Can compare the designed and actual use of the building
			Improvements	517	Can explain the influence of proper maintenance on the energy efficiency
			Improvements	518	Tan identify incorrect system operation
		1	Improvements	510	Can identify meaned system operation
		Proposals	Improvements	519	Can identify the incorrect subsystem operation
			Improvements	520	Can identify incorrect components operation
			Alternatives	521	Knows how to work out alternative system solutions
			Alternatives	522	Knows how to work out alternative subsystem solutions
			Alternatives	523	Knows how to work out alternative component solutions
			Major components	524	Can explain the major components of air handling unit based AC sustains
			Major components	524	Can explain the major components of all handling unit based AC systems
			Major components	525	can explain the major components of air nandling units
			Major components	526	Can explain the optimal sizing and adjustment of ventilators
			Major components	527	Can explain the optimal air-cooling process in the AHU
			Major components	528	Can explain the optimal air-dehumidification process in the AHU
			Major components	529	Can explain the role and criteria of filters in the AHU
			Major components	530	Can explain the major components of the distribution (duct) system
			Major components	530	Can channel major components of the distribution (due) of the distribu
			Major components	551	knows the inhubities on energy endericity of untight duct systems
		Cooling Energy Distribution System	Major components	532	Can explain the energetic impacts of sizing the duct system
			Major components	533	Knows the role and technology of duct insulations
			Major components	534	Can explain the energetic impacts of duct system insulation
			Major components	535	Can explain the criteria of outdoor air intake
			Major components	536	Can explain the role and criteria of balancing dampers
			Major components	527	Can available the rate and criteria of naise absence.
			Major components	537	Can explain the ord of the and of the first of the second se
			major components	538	Can explain the fore and Children di all Outlets
			Major components	539	Knows how to control and adjust the electronic/thermostatic expansion valves
	Terms and definitions		Major components	540	Knows how to control, adjust and set the optimal value of temperature in the AHU
	Terms and demitions		Major components	541	Knows how to control, adjust and set the optimal value of humidity in the AHU
			Major components	542	Can explain the criteria for air distribution in a treated area
			Major components	5/12	Can explain the need and how to reach overcoressure in treated area
			Major components	545	can explain the relevant with the fact overplets on the detect of the
			iviajor components	544	Can explain the role and positioning of air-blow-in components
		1	Major components	545	Knows now to adjust the air-quantity and direction of air-blow-in components
		1	Major components	546	Can explain the role and positioning of air-suction components
			Major components	547	Knows how to adjust the air-quantity of air-suction components
		Cooling Energy Emission System	Major components	548	Can explain the role and energetic impact of variable air volume
			Major components	549	Can explain the role and energetic impact of after heaters
			Operation	550	Conception to define the orthogene impact of the dedicated area
		1	Operation	550	Now now to come are optimal an parameters of the declared area
		1	operation	551	Can explain the universit capacity control or a treated area
			Operation	552	Knows how to measure the wet and dry temperatures of a treated area
			Operation	553	Knows how to measure the relative humidity of a treated area
			Operation	554	Knows how to measure the air velocities in a treated area
			Operation	555	Knows the different solutions for natural cooling methods
		Cooling Energy Generating System	Operation	556	Anows the different solutions for direct evanation cooling methods
		cooming chergy deficituting system	Operation	550	Knows the different colutions for differ based evolution methods
			operation	55/	Nitows the university solutions for chiller based cooling methods
			Pre-inspection checklists	558	Can explain the major steps of pre-inspection procedure
			Pre-inspection checklists	559	Knows how to define control zones
			Pre-inspection checklists	560	Knows how to define control areas
			Pre-inspection checklists	561	Knows how to define control parameters
			Pre-inspection checklists	562	Can explain the content and use of a balancing plan
			Dre inspection sheaklists	502	Can captain the content one doe of a bolisticing plan
		1	Pre-inspection checklists	563	Can identify the control and Bivis systems

				1 1	
			Pre-inspection checklists	564	Can explain the content and use of a maintenance plan
			Pre-inspection checklists	565	Knows the criteria for how to record energy supply
			Bro inspection shasklists	566	Vacuus how to process a pro-increasing sheadlist
				500	Knows to prepare a pre-inspection checkist
			Pre-inspection checklists	567	Can evaluate and explain the results of a pre-inspection
		Pre-inspection procedure	Pre-inspection checklists	568	Can make a report about a pre-inspection
			Visual check	569	Can explain the major steps of visual check procedure
			Visual check	570	Knows the minimum documents required on site
			Visual shock	571	
			Visual citeck	5/1	knows now to visually check the proper installation the air ducts
			Visual check	572	Knows how to visually check the proper positioning of air in/outlets
			Visual check	573	Knows how to visually check the insulation of air ducts
			Visual check	574	Can explain how and what to check in the maintenance documentation
			Visual chock	575	Knows the minimum content of the lockback
Air based systems			Visual crieck	575	knows the minimum content of the logbook
All based systems			Visual check	576	Knows how to evaluate the operation and maintenance history of the equipment
			Outcome of the inspections	577	Can give advice on how to improve the system efficiency
			Outcome of the inspections	578	Can give advice on how to improve the maintenance
			Inspection classes	579	Can estimate the annual running times of different components
	Energetic inspection		Inspection classes	575	Can example the insertion decrease of contractions
	Energette inspection	Classification	Inspection classes	560	can explain the inspection classes of AC solutions
			Inspection classes	581	Knows how to determine the content of energetic inspection
			Inspection classes	582	Knows how to determine the inspection frequency
			Documentation	583	Can recognize the air-conditioning systems in the building
			Documentation	594	Knows how to control the adjustment of the control sustem
		Extent of inspection	Documentation	504	Knows now to control the adjustment of the control system
			Documentation	585	Can control the level of maintenance
			Documentation	586	Knows the definition of proper steps and frequency of maintenance
			System components	587	Knows how to prepare an onsite checklist for a dedicated application
			System components	588	Can inspect the major components of the application
			System components	500	
		lana anta	system components	589	can explain which parameters or the system are relevant for energetic optimisation
		Inspection procedure	System components	590	Knows how to control the proper air distribution in a treated area
			System components	591	Knows how to control the proper adjustment and functioning of the control systems
			System components	592	Knows how to check the ductwork system
			System components	502	Nows how to execute the december system is unlikely value in a treated area
			System components	595	knows now to control the real temperature, numberly, velocity in a treated area
			Inspection checklists	594	Can explain the basic data of design works
			Inspection checklists	595	Can check and evaluate the design documentation
		Inspection content	Inspection checklists	596	Can check the proper sizing of cooling source
			Inspection checklists	597	Knows the inspection criteria for proper ducting and insulation
			Inspection checklists	500	Nows the inspection criteria of proper datang and instantion
			Inspection checklists	598	knows the installation criteria of an Air Handling Unit
			Inspection checklists	599	Knows how to check the proper air delivery in a treated area
			Inspection checklists	600	Knows how to check the proper positioning of air intake
			Inspection checklists	601	Knows how to check proper air ductwork installation
			Inspection checklists	602	Knows how to check the proper ductwork insulation
				602	who is now to check the proper datawork installation
			Preparing inspection reports	603	knows the major aspects of the evaluation of inspections
		Precautionary arrangements	Preparing inspection reports	604	Knows how to describe the improvements
		,	Preparing inspection reports	605	Knows how to propose alternative solutions
			Preparing inspection reports	606	Knows how to list the documents that should needed for inspection
			Creation of inspection report	607	Knows how to describe the systems that have been inspected
			Creation of inspection report	6007	Knows how to describe the systems that have been inspected
			Creation of inspection report	608	knows now to describe the results of inspections
			Creation of inspection report	609	Knows the energy impact related calculation methods
		Descriptions	Creation of inspection report	610	Knows how to describe the measured parameters of energy supply
			Creation of inspection report	611	Knows how to estimate the energy efficiency
			Creation of inspection report	612	Knows how to determine faults to be repaired
			Creation of inspection report	612	North for to determine future to be reported
			creation of inspection report	013	knows now to determine faults to be improved or modified
			Reducing cooling needs	614	Lan explain the advantages of proper ventilation
	Inspection report		Improving system efficiency	615	Can explain the advantages and use of free cooling
	inspection report		Improving system efficiency	616	Can explain the need for ventilation by using outdoor air
		Energy impacts	Improving system efficiency	617	Knows how to improve the emission efficiency
			Improving system efficiency	640	Note that the improve the enterthilting officiant
			improving system enciency	019	knows now to improve the distribution efficiency
			Checks existing solutions	619	Can explain the basic aspects of how to check initial design
			Checks existing solutions	620	Can explain how to check installation and fine tuning
			Improvements	621	Can compare the designed and actual use of the building
			Improvements	622	Can explain the influence of the proper maintenance on the energy efficiency
			improvements .	022	can explain the initiative of the proper maintenance on the energy enclency
			Improvements	623	can identify incorrect system operation
		Proposals	Improvements	624	Can identify incorrect subsystem operation
		11000303	Improvements	625	Can identify incorrect components operation
			Alternatives	626	Knows how to work out alternative system solutions
			Altomatives	627	Provide the visit of the state
			Alternatives	627	knows now to work out alternative subsystem solutions
			Alternatives	628	Knows how to work out alternative component solutions
			Major components	629	Can explain the major components of chiller based hydraulic AC systems
			Major components	630	Can explain the major components of chillers
			Major components	631	Can explain the major components of a hydronic system
			Major components	633	Con explain the major components of a improvement of pumps
			iviajor components	032	can explain the optimal sizing and adjustment of pumps
			Major components	633	Can explain the major components of the distribution (chilled water network) system
			Major components	634	Can explain the optimal parameters of water-cooling in chillers

			Major components	635 Knows the different secondary heat transfer media and their narameters
		Cooling Energy Distribution System	Major components	032 Cho walking the rate rate second any next transfer metal and then parameters
			Major components	555 Can explain the role and major components or Fan Coll units
			Major components	637 Can explain the proper positioning of fan coils
			Major components	638 Can explain the role and major components of surface cooling
			Major components	639 Can explain the energetic impacts of sizing the pipe network
			Major components	640 Knows how to work with Tichelmann principle
			Major components	641 Knows the role and technology of nine insulations
	Terms and definitions		Major components	C1 C
	Terms and demitions		Major components	642 Can explain the energetic impacts of pipe network insulation
			Major components	643 Can explain the role and criteria of balancing valves
			Operation	644 Knows how to control, adjust and set the optimal value of temperature on chillers
			Operation	645 Knows how to control, adjust and set the optimal value of quantity for secondary heat transfer media
			Operation	646 Can explain the role and energetic impacts of variable water volume
			Operation	647 Knows how to define the optimal air parameters of a dedicated area
			Operation	640 Cap explain the different capacity control of a treated area
		Cooling Energy Emission System	Operation	Gen explain the dimension of a treated and
		cooning Energy Emission System		049 Knows how to measure the wet and only temperatures of a treated area
			Operation	650 Knows how to measure the relative humidity of a treated area
			Operation	651 Knows how to measure the air velocities in a treated area
			Operation	652 Knows how to measure the transfer media flow rate in the network
			Operation	653 Knows the different solutions for natural cooling methods
		Cooling Energy Generating System	Operation	654 Knows the different solutions for direct expansion cooling methods
			Operation	
			Operation	bss knows the different solutions for chiller based cooling methods
			Pre-inspection checklists	656 Can explain the major steps of pre-inspection procedure
			Pre-inspection checklists	657 Knows how to define control zones
	1		Pre-inspection checklists	658 Knows how to define control areas
	1		Pre-inspection checklists	659 Knows how to define control parameters
	1		Pre-inspection checklists	660 Can explain the content and use of a balancing plan
			Pre-inspection checklists	000 can explain the content and use of a balancing plan
			Pre-inspection checklists	bb1 Can identify the control and BNIS Systems
			Pre-inspection checklists	662 Can explain the content and use of a maintenance plan
			Pre-inspection checklists	663 Knows the criteria for how to record energy supply
			Pre-inspection checklists	664 Knows how to prepare a pre-inspection checklist
		Pre-inspection procedure	Pre-inspection checklists	665 Can evaluate and explain the results of the pre-inspection
		· · · · · · · · · · · · · · · · · · ·	Bro inspection checklists	See Con make a report about the projection
			Viewel also also	ou can make a report about the pre-inspection
			Visual check	bb/ Lan explain the major steps of visual check procedure
			Visual check	668 Knows the minimum documents required on site
			Visual check	669 Knows how to visually check the proper installation of a pipe network
			Visual check	670 Knows how to visually check the proper positioning of air in/outlets
			Visual check	671 Knows how to visually check the insulation of a pipe network
			Visual check	572 Can explain how and what to check in the maintenance documentation
			Visual check	672 Can explain now and what to check in the maintenance documentation
			VISUAL CHECK	673 knows the minimum content of the logbook
			Visual check	674 Knows how to evaluate the operation and maintenance history of the equipment
Water based systems			Inspection classes	675 Can estimate the annual running times of different components
Hater based systems		Classification	Inspection classes	676 Can explain the inspection classes of AC solutions
	For exactly in an exting	classification	Inspection classes	677 Knows how to determine the content of energetic inspection
	Energetic inspection		Inspection classes	678 Knows how to determine the inspection frequency
			Outcome of the inspections	670 Congine actives how to improve the custom officiency
		Inspection results	Outcome of the inspections	Concerning we address on the works in the intervention of the second sec
			Outcome of the inspections	boo can give advice on now to improve the mantenance
			Documentation	bal Can recognize the air-conditioning systems in a building
		Extent of inspection	Documentation	682 Knows how to control the adjustment of the control system
		Extent of hispetiton	Documentation	683 Can control the level of maintenance
			Documentation	684 Knows the definition for the proper steps and frequency of maintenance
			System components	685 Knows how to prepare an onsite checklist for a dedicated application
	1		System components	866 Can inspect the major components of the application
			System components	Geo Carrinspect the major components of the approximation of the structure in the structure
		Inspection procedure	System components	687 Can explain which parameters of the system are relevant for energetic optimisation
			System components	688 Knows how to control the proper air distribution in a treated area
			System components	689 Knows how to control the proper adjustment and functioning the control systems
			System components	690 Knows how to control the dry and wet bulb air temperature and velocity in a treated area
			Inspection checklists	691 Can explain the basic data of design works
			Inspection checklists	602 Can check and evaluate the design documentation
			Inspection checklists	
	1		Inspection checklists	0.5 Construction of copy of a stange of cooling source
	1		Inspection checklists	b94 knows the inspection criteria for proper pipework insulation
	1	Inspection content	Inspection checklists	695 Knows the installation criteria for an outdoor chiller
	1		Inspection checklists	696 Knows the installation criteria for an indoor chiller
	1		Inspection checklists	697 Knows the installation criteria for an outdoor condenser and cooling tower
	1		Inspection checklists	698 Knows how to check the execution of a proper pipe network
	1		Inspection checklists	Source have to check for proper piper insulation
		+	Dreparing inspection reports	201 Knows how to uncer for proper pre-inclusion in subation
	1		Preparing Inspection reports	Too Nitows use major aspects for the evaluation of inspections
	1	Precautionary arrangements	Preparing inspection reports	701 Knows how to describe the improvements
	1	,	Preparing inspection reports	702 Knows how to propose alternative solutions
	1		Preparing inspection reports	703 Knows how to list the documents that should be needed for inspection
	1		Creation of inspection report	704 Knows how to describe the systems that have been inspected
	1		Creation of inspection report	705 Knows how to describe the results of inspections
	1		creation of inspection report	705 knows now to describe the results of inspections

			Creation of inspection report	706 Knows the energy impacts related calculation methods
		Descriptions	Creation of inspection report	707 Knows how to describe the measured parameters of energy supply
			Creation of inspection report	708 Knows how to estimate the energy efficiency
			Creation of inspection report	709 Knows how to determine faults to be repaired
			Creation of inspection report	710 Knows how to determine faults to be improved or modified
	Inspection report		Improving system efficiency	711 Knows how to improve the emission efficiency
		Energy impacts	Improving system efficiency	712 Knows how to improve the distribution efficiency
		Lifergy impacts	Checks existing solutions	713 Can explain the basic aspects of how to check initial design
			Checks existing solutions	714 Can explain how to check installation and fine tuning
			Improvements	715 Can compare the designed and actual use of the building
			Improvements	716 Can explain the influence of the proper maintenance on the energy efficiency
			Improvements	717 Can identify the incorrect system operation
		Proposals	Improvements	718 Can identify the incorrect subsystem operation
		roposais	Improvements	719 Can identify the incorrect components operation
			Alternatives	720 Knows how to work out alternative system solutions
			Alternatives	721 Knows how to work out alternative subsystem solutions
			Alternatives	722 Knows how to work out alternative component solutions
National requirements	National requirements	National requirements	National requirements	723