

## VU22583 - List of Knowledge items (K)

This sheet identifies the Required Knowledge Evidence (RK) items that form the resulting list of Knowledge (K) items and go on to form the Knowledge assessment

K No.			P No.
KA1	RK No.	KE Item	
	RK1	Types, composition, applications, flammability and toxicity of typical A2/A2L refrigerants including R32 and R1234yf	
K1		Types, composition and applications of typical A2/A2L refrigerants including R32 and R1234yf	
		Flammability and Toxicity ratings	P2
	RK2	Operating pressures and temperatures of typical applications using A2/A2L refrigerants	P13
	RK3	Safe handling and transport requirements of A2/A2L refrigerants including Safety Data Sheets (SDS)	
		Safe handling requirements of A2/A2L refrigerants including Safety Data Sheets (SDS)	P4
K2		Transport requirements of A2/A2L refrigerants	
K3		Disposal of contaminated of A2/A2L refrigerants	
	RK4	Compatibility issues of A2/A2L refrigerants with class A1 refrigerant lubricants, materials, components and tools	
K4		Compatibility issues with class A1 refrigerant lubricants	
		Compatibility issues with materials, components and tools	P5
	RK5	Requirements for working with A2/A2L refrigerants including leak detection, recovery charge, pipe sizing, making joints and special tools.	
		Recovery requirements for A2/A2L refrigerants	P8
		Leak detection requirements for A2/A2L refrigerants	P11, P14
		Charging requirements for A2/A2L refrigerants	P12
K5		Pipe sizing requirements for A2/A2L refrigerants	
K6		Requirements for making joints and special tools for A2/A2L refrigerants	
K7	RK6	Current relevant standards and codes for use of A2/A2L flammable refrigerants including AS/NZS ISO 817, AS/NZS 5149-4, AS/ANS 60335.2.40, Refrigerant handling code of practice, Ozone Protection and Synthetic Greenhouse Gas Management Act and Regulation and AIRAH Flammable Refrigerants Safety Guide.	
	RK7	A2/A2L equipment manufacturer specifications for refrigeration and air conditioning systems, service gauges, vacuum pumps and gauges, recovery units, dry nitrogen cylinders and gauges and flammable refrigerant cylinders.	
	RK8	Emergency procedures and incident management requirements and procedures including relevant SDS and recommended PPE	
K8	RK9	First aid issues and symptoms that result from short and long-term effects of contact, swallowing, splashing or inhalation for A2/A2L refrigerants	
K9	RK10	A2/A2L refrigerant cylinders requirements including pressure ratings, pressure relief devices, outlet connection type and recovery cylinders	
	RK11	A2/A2L refrigerant cylinder storage, handling and transport requirements	
K10	RK12	Relevant State/Territory and national licensing requirements for A2/A2L refrigerants	

NOTE: PC's 1.5 and 3.3 are not practical to assess at an RTO and will be assessed in the Knowledge Assessment, not the Skill Assessment