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The Service Engineers' Section (SES) is a subscription service offered by the Institute of Refrigeration for refrigeration and air conditioning personnel working in the service, maintenance and installation sector. It was set up in 2000 and represents 1000 individual technicians.



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Legislation & Regulations

- F Gas Regulation datasheets
- Transport regulations (ADR)
- Mandatory record keeping
- Pressure Equipment Directive
- Hazardous Waste Regulations
- Equipment owner responsibilities
- Guide to health and safety regulations



Skills & training

- Lists of training providers
- Registration schemes for companies and individuals
- Guide to refrigerant handling qualifications under F gas



Refrigerants

- Retrofit fluids
- Direct and Indirect leak testing
- Handling Hydrocarbons
- Refrigerant recovery and re-use
- Phase out timetables
- Static leak detection
- Copper pipe wall thickness datasheet



Practical health & safety

- Guide to BS EN 378 Safety Standard
- Carriage of Cylinders Good practice guide
- Cylinder colours datasheet
- Safe working practices at low temperatures
- Pressure testing with nitrogen
- Connecting to R410A safely
- Safe use of manifolds
- Electrical safety guidance note



Fundamentals & good practice

- Energy efficiency good practice guide
- Calculating pipe wall sizing
- Insulation of piping and ductwork
- Lubricants and compatibility
- Variable refrigerant flow explained
- Cold room sizing
- Superheat and subcooling
- Temperature pull down of cold stores
- Using P-h charts to diagnose faults



Service & maintenance

- Evacuation
- Charging procedures practice guide
- Oil pressure on pump lubricated systems
- Maintenance of commercial display cabinets
- Avoiding legionella
- Defrosting
- Brazing to minimise leakage
- Oil draining from ammonia systems
- Guide to 13 common leaks



Components

- Thermal expansion valves
- Compressor comparison guide
- Replacement evaporators
- Air cooled condensers
- Blistering on cooling coils
- Evaporative condensers
- AC motors
- Oil Separators
- Motor coupling alignment
- Siting of condensers