OKHC – Refrigeration systems/heat pumps with flammable refrigerants



Schedule – CW xx/20xx

Training leadership: N.N.

| Day 1 | | |
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| 09:00 | N.N. | Welcome, general remarks |
| | | Motivation for usage of hydrocarbons und A2L-refrigerants F-Gas Regulation, effects of synthetical refrigerants to the environment |
| | | Applications and characteristics of different flammable refrigerants, safety- related basics types of hydrocarbons and A2L-refrigerants, characteristics of the hydrocarbons and A2L-refrigerants, flammability, behaviour of hydrocarbons in air, comparison of hydrocarbons and A2L-refrigerants, installation instructions, comparison of capacity and efficiency with synthetical refrigerants, oil-solubility, foaming- |
| | | behaviour of oils, optimized superheat, crankcase heater, applications |
| 10:00 | Coffee break | |
| 10:10 | N.N. | Continuation Applications and characteristics of different flammable refrigerants, safety- related basics |
| | | Hazard potential of refrigerants and refrigeration systems pressures, frostbite, risk of explosion, flammability, toxicity, suffocation, EN 378 - safety-groups of refrigerants, critical gas concentrations, gas detectors, ventilation, toxic degradation/fission products, personal protective equipment, respiratory protection, first aid measures, handling and storage of refrigerant containers |
| 11:00 | Coffee break | |
| 11:10 | N.N. | Continuation Hazard potential of refrigerants and refrigeration systems |
| 12:00 | Lunch break | |
| 12:45 | N.N. | Continuation Hazard potential of refrigerants and refrigeration systems |
| | | Handling of flammable refrigerants safety precaution, decommissioning of a system, procedure of refrigerant recovery, draining of refrigerant, flushing the system, opening the system and related safety measures, tightness test, evacuation, charging refrigerant, equipment for maintenance, special components and their features |
| 13:50 | Coffee break | |
| 14:00 | N.N. | Continuation Handling of flammable refrigerants |
| | | Legislation and standards risk assessment, hazard assessment, ATEX, refrigerant charge and room size, EN 378 etc. |
| 15:10 | Coffee break | |
| 15:20 | N.N. | Continuation Legislation and standards |
| 16:15 | N.N. | Open questions, farewell |
| 16:30 | End of training | |