

Optional Information

Name of School:

Date of Inspection:

Vocational Program/Course/Room:

Signature of Inspector:

**Service and Repair of
Motor Vehicle Air Conditioners (MVACs)
Self Inspection Checklist**

Guidelines: This checklist covers the regulations issued by the Environmental Protection Agency under 40 CFR 82.30 to 82.42. They apply to anyone servicing *motor vehicle air conditioners* for cash, credit, goods, or services. These regulations do not cover service work for free but do cover vocational schools. Appendix A of the regulations 40 CFR 82.30 to should also be consulted and include: "Standard of Purity for Use in Mobile Air Conditioning Systems," "Extraction and Recycle Equipment for Mobile Automotive Air Conditioning Systems," and "Recommended Service Procedure for the Containment of R-12." Definitions of italicized terms are provided at the end of the checklist to help you understand some of the questions.

Servicing Motor Vehicle Air Conditioners	<u>Please Circle</u>
1. Are all instructors who teach the repair or service of <i>motor vehicle air conditioners</i> trained and certified by an EPA approved program for MVACs? [40 CFR 82.34 and 82.40]	Y N N/A DK
2. Are <i>proper procedures</i> followed to prevent loss of refrigerant when recycling or recovering refrigerant from <i>motor vehicle air conditioners</i> ? [40 CFR 82.34]	Y N N/A DK
3. Is intentionally venting or disposing of refrigerant prohibited in this shop? [40 CFR 82.32 and 82.34]	Y N N/A DK

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| 4. | Is all equipment used to recycle or recover refrigerant EPA <i>approved</i> ? [40 CFR 82.34 and 82.36] | Y | N | N/A | DK |
| 5. | Has a proper " <i>Repair Equipment Certification</i> " been prepared and sent to the EPA? [40 CFR 82.42] | Y | N | N/A | DK |
| 6. | Are records maintained that show the name and address of the reclamation facility to which refrigerant is sent? [40 CFR 82.42] | Y | N | N/A | DK |
| 7. | Are records maintained that demonstrate that all individuals authorized to operate refrigerant recycling or recovery equipment are currently certified? [40 CFR 82.42] | Y | N | N/A | DK |
| 8. | Are all required records maintained on-site for at least 3 years? [40 CFR 82.42] | Y | N | N/A | DK |
| 9. | Is the sale or distribution of containers which contain less than 20 pounds of refrigerant prohibited unless the purchaser is properly trained and certified to repair and service MVACs? [40 CFR 82.34 and 82.42] | Y | N | N/A | DK |

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Definitions:

Approved means certified by EPA or certified by an EPA *approved* organization. *Approved* recover/recycle machines meet the technical specifications of SAE Standard J-1990 and must have the capacity to purify used refrigerant to SAE Standard J-1991 for safe and direct return to the air conditioner following repairs. Recover-only equipment removes the refrigerant from the A/C unit as specified by SAE Standard J-2209 and transfers it into a holding tank. A list of both types of *approved* equipment is available from EPA. Most certified equipment will be labeled as "design-certified to SAE standards." Technicians who repair or service motor vehicle air conditioners must be trained and certified by an EPA-*approved* organization. Training programs must cover use of recycling equipment in compliance with SAE Standard J-1989, the regulatory requirements, the importance of refrigerant containment, and the effects of ozone depletion. To be certified, technicians must pass a test demonstrating their knowledge in these areas. A list of *approved* testing programs is available from EPA.

Proper procedures means using equipment following "Recommend Service Procedure for Containment of R-12 (CFC-12)" set forth in Appendix A of the regulations 40 CFR Subpart B, 82.30 to 82.42. In addition, this means operating the equipment in accordance with the manufacturer's guide to operation and maintenance and using the equipment only for the controlled substance for which the machine is designed. For equipment that extracts and recycles refrigerant, *proper procedures* means to recycle refrigerant before it is returned to a motor vehicle air conditioner. For equipment that only recovers refrigerant, *proper procedures* means recycling the refrigerant on-site or sending the refrigerant off-site for reclamation. Refrigerant from reclamation facilities that is used for the purpose of recharging motor vehicle air conditioners must be at or above the standard of purity developed by the Air-conditioning and Refrigeration Institute (ARI 700-88) [available at 4301 North Fairfax Drive, Suite 425, Arlington, Virginia 22203] in effect as of November 15, 1990. Refrigerant may be recycled off-site only if the refrigerant is extracted using recover only equipment, and is subsequently recycled off-site by equipment owned by the person that owns both the recover only equipment and owns or operates the establishment at which the refrigerant was extracted. In any event, approved equipment must be used to extract refrigerant prior to performing any service during which discharge of refrigerant from the motor vehicle air conditioner can reasonably be expected. Intentionally venting or disposing of refrigerant to the atmosphere is an improper use of equipment. [82.32(e)]

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Repair Equipment Certification means a signed statement by the owner of the equipment used to recycle or recover refrigerant that includes: a) the name of the purchaser of any EPA approved equipment used to recycle or recover refrigerant; b) the address of the establishment where the equipment will be located; c) the manufacturer name and equipment model number, the date of manufacture, and the serial number of the equipment; d) a statement that the equipment will be properly used in servicing *motor vehicle air conditioners*; e) a statement that each instructor authorized to teach service is properly trained and certified for repairing and servicing MVAC; and f) a signature of the owner of the equipment or other responsible officer. This "Certification" must be sent to MVACs Recycling Program Manager, Stratospheric Ozone Protection Branch (6202-J), U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460. [40 CFR 82.42]

Motor vehicle air conditioners (MVAC) means mechanical vapor compression refrigeration equipment used to cool the driver's or passenger's compartment of any motor vehicle. This definition is not intended to encompass the hermetically sealed refrigeration systems used on motor vehicles for refrigerated cargo and the air conditioning systems on passenger buses using HCFC-22 refrigerant.

Sources of Additional Information:

Stratospheric Ozone Information Hotline: 1-800-296-1996

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