



Correlation of
Modern Refrigeration and Air Conditioning, by Althouse, Turnquist, Bracciano
(Goodheart-Willcox Publisher ©2021)
to
AHRI Curriculum Guide: XXI. Refrigerant Retrofits

The following chart correlates the *Modern Refrigeration and Air Conditioning* textbook (©2021) to a section of the Curriculum Guide developed by Air-Conditioning, Heating, and Refrigeration Institute (AHRI) and used for PAHRA accreditation.

The chart lists the Curriculum Guide’s knowledge and task competency objectives and the corresponding chapter numbers from *Modern Refrigeration and Air Conditioning*.

For more information on the Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA) and related accreditation, please visit: www.pahrahvacr.org



XXI.A. Alternative Refrigerant Retrofits	
Knowledge	Textbook Chapter(s)
1. Determine if the alternative refrigerant and/or lubricant:	
a. is applicable for retrofitting specific system	Chapters 9, 10, 11, Appendix
b. is on the EPA SNAP list	Chapter 9, Appendix
c. is U.L. listed	Chapters 9, 16, Appendix
d. meets the equipment manufacturers’ approval	Chapters 9, 31, 32, 33, Appendix
2. Determine the lubricant required for the alternate refrigerants.	Chapters 9, 10, 11, 19, 26, 55
Tasks	Textbook Chapter(s)
1. Procure the Manufacturers’ Changeover Guidelines and follow the retrofit procedures.	Chapters 9, 11, 19, 26, 55, Appendix
2. Measure the residual mineral oil in a system being changed from a CFC to an HFC refrigerant.	Chapters 9, 11, 19, 26, 55, Appendix