

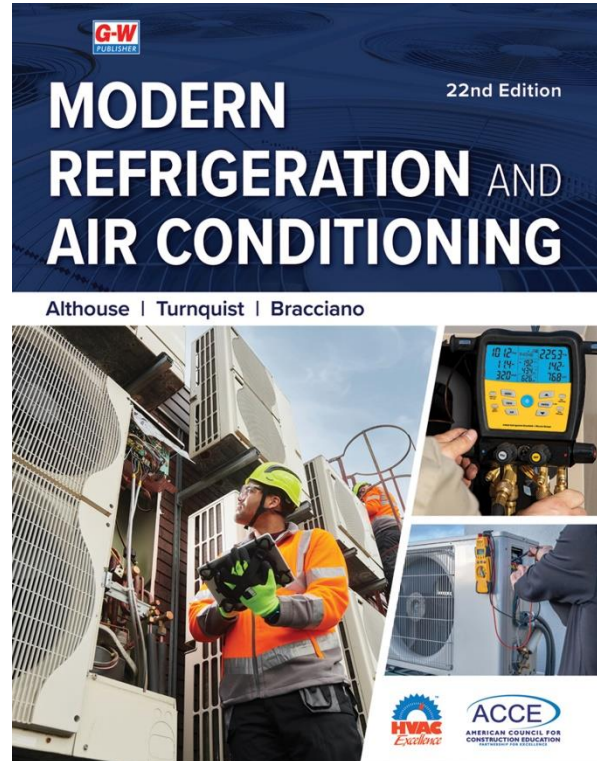


Correlation of
Modern Refrigeration and Air Conditioning, Althouse, Turnquist, Bracciano
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to
AHRI Curriculum Guide XIX. Preventative Maintenance

Goodheart-Willcox is pleased to partner with the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) and the American Council for Construction Education (ACCE) by correlating *Modern Refrigeration and Air Conditioning* to the AHRI Curriculum Guide. The following chart correlates *Modern Refrigeration and Air Conditioning* to a section of the Curriculum Guide developed by AHRI used for ACCE (formerly PAHRA) accreditation.

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

For more information on the American Council for Construction Education (ACCE) and related accreditation, please visit: www.acce-hq.org



| XIX.A. Basic Maintenance | |
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| Knowledge | Textbook Chapter(s) |
| 1. Explain the various types of maintenance programs. | Chapters 3, 22, 23, 25, 29, 31, 33, 34, 35, 36, 37 |
| 2. Explain broad tasks and frequencies for a quality maintenance program. | Chapters 3, 22, 23, 25, 29, 31, 33, 34, 35, 36, 37 |
| 3. Explain why each step of the preventive maintenance program is necessary. | Chapters 3, 22, 23, 25, 29, 31, 33, 34, 35, 36, 37 |
| 4. Explain the benefits associated with proper equipment maintenance. | Chapters 3, 22, 23, 25, 29, 31, 33, 34, 35, 36, 37 |

Correlation of *Modern Refrigeration and Air Conditioning* to AHRI Curriculum Guide:

XIX. Preventative Maintenance—page 2

| XIX.A. Basic Maintenance (continued) | |
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| Tasks | Textbook Chapter(s) |
| 1. Demonstrate various maintenance tasks. | Chapters 22, 23, 25, 29, 31, 33, 34, 35 |
| 2. Develop a preventive maintenance program for: | |
| a. absorption cooling unit | Chapters 3, 27 |
| b. electric heat system | Chapters 3, 31, 33, 35 |
| c. gas heat system | Chapters 3, 31, 33 |
| d. heat pump system | Chapters 3, 33, 36, 37 |
| e. hydronic systems | Chapters 3, 33, 38 |
| f. ice makers | Chapters 3, 21, 33, 48, 49 |
| g. oil heat system | Chapters 3, 33, 34 |
| h. package heat and cooling unit | Chapters 3, 22, 25, 33 |
| i. refrigeration systems | Chapters 3, 21, 48, 49, 50 |
| j. split system condensing unit and evaporator | Chapters 3, 22, 23, 25, 31, 48, 49, 50 |
| k. walk-in boxes | Chapters 3, 41, 46, 48, 49, 50 |
| l. water-cooled centrifugal chiller | Chapters 3, 25, 27, 48, 49, 50 |
| m. water-cooled reciprocating chiller | Chapters 3, 25, 48, 49, 50 |
| 3. Develop a list of tools needed to perform the preventive maintenance program. | Chapters 3, 4, 5, 11, 12, 18, 23, 25, 31, 48, 49, 50 |
| 4. Develop a preventive maintenance check sheet. | Chapters 3, 4, 5, 11, 12, 18, 23, 25, 31, 48, 49, 50 |