

AIR CONDITIONING & REFRIGERATION PROGRAM

TECHNICAL CERTIFICATE IN AIR CONDITIONING AND REFRIGERATION - FACILITIES MAINTENANCE OPTION

Curriculum

The matrix below is a sample plan for all coursework required for this program.

Fall

Course Number and Name	Credits
ACR 1203 Fundamentals of Electricity	3
ACR 1205 Tubing and Piping	5
ACR 1301 Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302 Basic Compression and Refrigeration	2
BST 1003 Business English or ENGL 1013	3
WLD 1302 Metallurgy	2
Total Hours	16

Spring

Course Number and Name	Credits
ACR 1222 Industrial Controls	2
ACR 1503 Electronic Components	3
ACR 1602 Schematics	2
TMAT 1203 Technical Mathematics	3
FAC 2202 Carpentry or Approved elective	2
FAC 2212 Plumbing or Approved elective	2
Total Hours	14

1st Summer Session (five-week courses)

Course Number and Name	Credits
AT 2123 INDUSTRIAL FLUID POWER	3
Approved Elective	3
Total Hours	6

Suggested approved electives include: AST 1004 Gasoline Engine Theory, BST 1073 Accounting, CRT 1124 Painting I, ICS 1104, or ICS 1303

(Concurrent students who earn a Certificate of Proficiency in Construction Technology may progress to earn a Technical Certificate in Air Conditioning and Refrigeration - Facilities Maintenance Option by completing the remaining required courses below.)

Certificate of Proficiency in Construction Technology

Air Conditioning & Refrigeration Program

Course Number and Name	Credits
FAC 2102 Electrical Applications	2
FAC 2104 Construction Fundamentals	4
FAC 2202 Carpentry	2
FAC 2212 Plumbing	2
Total Hours	10

Fall

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ACR 1203 Fundamentals of Electricity	3
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ACR 1302 Basic Compression and Refrigeration	2
BST 1003 Business English	3
WLD 1302 Metallurgy	2
Total Hours	16

Spring

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ACR 1222 Industrial Controls	2
ACR 1503 Electronic Components	3
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TMAT 1203 Technical Mathematics	3
Total Hours	10