

Certificate Level I Dental Laboratory Technology**First Semester**

Course	Title	Credit Hours
PSYC/EDUC 1100	Learning Framework	1
DLBT 1301	Dental Anatomy and Tooth Morphology	3
DLBT 1305	Dental Materials	3
Elective	Approved by advisor	1
TOTAL		8

Second Semester

Course	Title	Credit Hours
DLBT 1313	Complete Denture Techniques I	3
DLBT 1317	Fixed Restorative Techniques I	3
DLBT 2341	Dental Ceramic Techniques I	3
DLBT 2101	Introduction to Occlusion/Mandibular Motion	1
Elective	Approved by Advisor	1
TOTAL		11

Summer

Course	Title	Credit Hours
DLBT 1364 ¹⁻²	Practicum	3

Third Semester

Course	Title	Credit Hours
DLBT 2311	Fixed Restorative Techniques II	3
DLBT 2342	Dental Ceramics II	3
DLBT 2319	Intermediate Dental Skill	3
DLBT 2321	Fixed Restorative Techniques III	3
TOTAL		9

Fourth Semester

Course	Title	Credit Hours
DLBT 2321	Fixed Restorative Techniques III	3
DLBT 1110	Practical Infection Control	1
DLBT 1206	Dental Implants	2
TOTAL		4-5
TOTAL HOURS IN CERTIFICATE		37-38

¹Capstone Course²Internship students must provide their own transportation to internship sites.

Since most DLT students will take less than a full load of courses their last semester, DLT students will obtain special permission from the SWCID Dean of Students for dorm and cafeteria privileges during their last semester in the DLT program. Completion of EDUC 0300 required prior to graduation.

Heating Ventilation Air Conditioning (HVAC/R) Specialization

The HVAC/R Specialization at Howard College is designed to prepare the student to seek a Texas State License in the HVAC/R field. If a potential student has been convicted of a felony, he or she will be required to complete the Texas Department of Licensing and Regulation (TDLR) Criminal History Evaluation Letter before acceptance in the HVAC/R Specialization: <http://www.license.state.tx.us/crimHistoryEval.htm>. Prior to enrollment in the Internship Program all students will be required to complete a background check and drug screen. If an applicant does not pass the background check and drug screen, they are not eligible to be accepted into the internship course.

Pre-requisite Courses for all HVAC/R Certificates

Course	Title	Credit Hours
HART 1401	Basic Electricity for HVAC ¹	4
HART 1407	Refrigeration Principles	4
	Total	8

¹ OSHA 10 General Industry Certification is required before enrolling in HART 1401.

**Certificate Level I Industrial Production Technology
Introduction to Heating Ventilation Air Conditioning (HVAC/R)**

Course	Title	Credit Hours
	Pre-requisite courses (listed above)	8
CNBT 1301	Introduction to Construction Industry	3
HART 1403	Air Conditioning Control Principles	4
HART 1441	Residential Air Conditioning	4
	Total	19

Certificate Level I Industrial Production Technology – Residential HVAC/R

Course	Title	Credit Hours
	Pre-requisite courses (listed above)	8
CNBT 1301	Introduction to Construction Industry	3
HART 1445	Gas and Electric Heating	4
HART 2449	Heat Pumps	4
HART 2445 2345	Residential Air Conditioning Systems Design	4-3
HART 2401	Air Conditioning and Refrigeration Codes	4
	Total	26

**Certificate Level II Industrial Production Technology - Advanced Heating Ventilation
Air Conditioning/Refrigeration (HVAC/R)**

Course	Title	Credit Hours
	Pre-requisite courses (listed above)	8
	Courses in Certificate Level I – Introduction to HVAC/R	11
	Courses in Certificate Level I – Residential HVAC/R	15
HART 2431	Advanced Electricity for HVAC	4
HART 2434	Advanced Air Conditioning Controls	4
HART 2441	Commercial Air Conditioning	4
HART 2442	Commercial Refrigeration	4
HART 2288	Internship	2
	Total Hours	52

Workforce Training (Continuing Education) Certificates**Heating Ventilation Air Conditioning (HVAC/R) Specializations**

The HVAC/R Specialization at Howard College is designed to prepare the student to seek a Texas State License in the HVAC/R field. If a potential student has been convicted of a felony, he or she will be required to complete the Texas Department of Licensing and Regulation (TDLR) Criminal History Evaluation Letter before acceptance in the HVAC/R Specialization: <http://www.license.state.tx.us/crimHistoryEval.htm>. Prior to enrollment in the Internship Program all students will be required to complete a background check and drug screen. **If an applicant does not pass the background check and drug screen, they are not eligible to be accepted into the internship course.**

Pre-requisite Courses for all HVAC/R Certificates

Course	Title	Contact Hours
HART 1001	Basic Electricity for HVAC ¹	64-96
HART 1007	Refrigeration Principles	64-96
OSHT 2011	OSHA 10 Hour General Industry	10
Total Hours		202

¹ OSHA 10 General Industry Certification is required before enrolling in HART 1001.

Marketable Skills Achievement Award**Workforce Training Certificate****Industrial Production Technology-HVAC/R Specialization**

Course	Title	Contact Hours
Pre-requisite courses (listed above)		202
CNBT 1001	Introduction to Construction Industry	48
HART 1003	Air Conditioning Control Principles	64-96
HART 1041	Residential Air Conditioning	64-96
Total Hours		304-442

Marketable Skills Achievement Award**Workforce Training Certificate****Industrial Production Technology-Residential HVAC/R**

Course	Title	Contact Hours
Pre-requisite courses (listed above)		202
CNBT 1001	Introduction to Construction Industry	48
HART 1045	Gas and Electric Heating	64-96
HART 2049	Heat Pumps	64
HART 2045	Residential Air Conditioning Systems Design	64-48
HART 2001	Air Conditioning and Refrigeration Codes	64
Total Hours		314-522

Marketable Skills Achievement Award**Workforce Training Certificate****Industrial Production Technology-Advanced Heating Ventilation
Air Conditioning/Refrigeration (HVAC/R)**

Course	Title	Contact Hours
Pre-requisite courses (listed above)		202
CNBT 1001	Introduction to Construction Industry	48
HART 2031	Advanced Electricity for HVAC	64-96
HART 2034	Advanced Air Conditioning Controls	64-96
HART 2041	Commercial Air Conditioning	64-96
HART 2042	Commercial Refrigeration	64-96
Total Hours		304-634