

# Program Scorecard 2022-23

## A/C, Heating, & Refrigeration Tech. 31-401-1

Student Demographics	2022-23		2021-22		2020-21	
	Number	Percent	Number	Percent	Number	Percent
Full-Time	42	60%	49	71%	41	73%
Part-Time	28	40%	20	29%	15	27%
Students with Disabilities	2	3%	2	3%	0	0%
Students of Color	4	6%	6	9%	4	7%
Financial Aid Recipients	22	34%	29	42%	21	38%
Male	69	99%	67	97%	53	95%
Female	1	1%	2	3%	3	5%
Mean Age	23		26		28	
Median Age	20		20		22	
Mode Age	19		19		19	
Bias per WTCS (NTO*)	Female		Female		Female	
Total Program Students	70		69		56	
Total Pre-Program Students	0		0		0	

NOTE: Demographics include program students only, with the exception of financial aid  
 \*NTO: non-traditional occupation

Student Interest	2022-23	2021-22	2020-21	2019-20	2018-19
New Accepted Students	56	60	51	47	50
Capacity	73	70	59	59	61
Percent Capacity	77%	86%	86%	80%	82%
FTEs	56	57	44	41	46
Fall/Spring Waitlist	0	0	0	0	0

Graduate Placement	2022-23*	2021-22	2020-21	2019-20	2018-19
Graduates	46	44	29	29	29
Employed in Related Field	NA	89%	100%	63%	100%
Seeking Employment	NA	5%	0%	0%	0%
Continuing Education	NA	34%	53%	56%	43%
Survey Response Rate	NA	69%	52%	64%	79%

\*2022-23 graduate placement data is not available because graduates are surveyed 6 months to 1 year after graduation; 2022-23 data will be available spring 2024.

Wages & Openings	2021-22
CVTC Graduate Average Hourly Wage	\$21.81
CVTC Graduate Average Annual Wage	\$48,779
Regional Median Annual Wage	\$58,580
Regional Job Openings	49

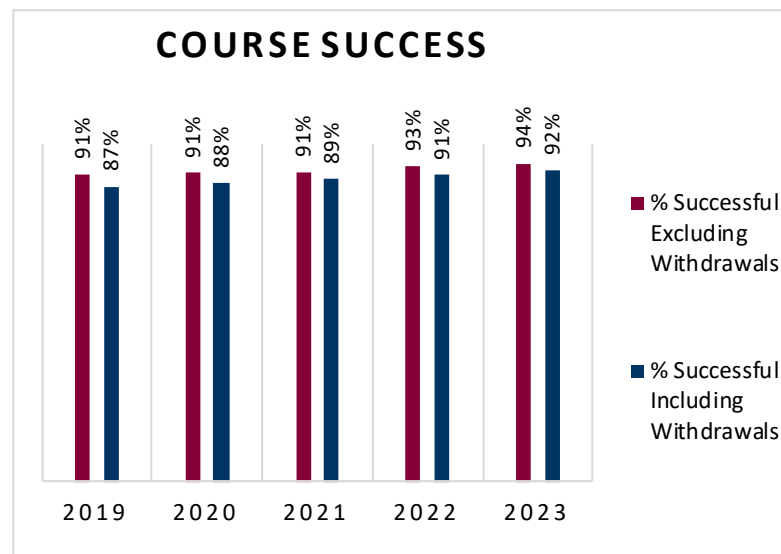
CVTC Key Performance Indicator Goals		
	Goal	Actual
Graduation within 2 years	80%	70%
Job Related Placement	90%	82%
Aidable FTEs	3,865	3,835

Graduation Rates	Cohort Year*					3 Year Program Target	WTCS
	2021-22	2020-21	2019-20	2018-19	2017-18		
Graduation within 2 Years	72%	68%	54%	63%	86%	67%	36%

\*Cohort year is the year the student started in the program.

Retention Rates	Academic Year					3 Year Program Target
	Fall 2022 to Spring 2023	Fall 2021 to Spring 2022	Fall 2020 to Spring 2021	Fall 2019 to Spring 2020	Fall 2018 to Spring 2019	
Semester-to-Semester	88%	90%	88%	84%	87%	87%
Core Courses	2022-23	2021-22	2020-21	2019-20	2018-19	
Course Success Rate	92%	92%	90%	88%	89%	95%
Withdraw Rate	2%	2%	2%	3%	NA	NA
General Education Courses	2022-23	2021-22	2020-21	2019-20	2018-19	
Course Success Rate	76%	78%	71%	86%	80%	83%
Withdraw Rate	2%	9%	6%	3%	6%	NA

Technical Skills Attainment	2022-23	2021-22	2020-21	2019-20	2018-19
Met	28	46	30	29	28
Not Met	14	1	0	0	0
Not Assessed	1	0	2	2	6



CVTC Course Success Goal: 80%

**CAREER CLUSTER**  
*Architecture & Construction*

**A/C, Heating, and Refrigeration Technician (31-401-1)  
2022-23 Course Success**

Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
Blended (less than 50% online)	688	50	18	756	93%	91%
Face-to-Face	281	16	3	300	95%	94%
Online	0	1	1	2	0%	0%
<b>Grand Total</b>	<b>969</b>	<b>67</b>	<b>22</b>	<b>1,058</b>	<b>94%</b>	<b>92%</b>

Course & Delivery Method	Successful Count	Unsuccessful Count	Withdrawal Count	Enrollment Count	% Successful Excluding Withdrawals	% Successful Including Withdrawals
<b>601-105 Refrigeration Principles</b>	<b>44</b>	<b>3</b>	<b>0</b>	<b>47</b>	<b>94%</b>	<b>94%</b>
Blended (less than 50% online)	44	3	0	47	94%	94%
<b>601-106 Refrigeration Theory</b>	<b>51</b>	<b>0</b>	<b>2</b>	<b>53</b>	<b>100%</b>	<b>96%</b>
Blended (less than 50% online)	51	0	2	53	100%	96%
<b>601-107 Heating Theory</b>	<b>49</b>	<b>0</b>	<b>3</b>	<b>52</b>	<b>100%</b>	<b>94%</b>
Blended (less than 50% online)	49	0	3	52	100%	94%
<b>601-108 Pncples of Gas Heat &amp; Airfl</b>	<b>44</b>	<b>6</b>	<b>0</b>	<b>50</b>	<b>88%</b>	<b>88%</b>
Blended (less than 50% online)	44	6	0	50	88%	88%
<b>601-109 Prin of Oil, Elec &amp; Hydron Htg</b>	<b>47</b>	<b>6</b>	<b>3</b>	<b>56</b>	<b>89%</b>	<b>84%</b>
Blended (less than 50% online)	44	6	3	53	88%	83%
Face-to-Face	3	0	0	3	100%	100%
<b>601-116 Principles of Air Conditioning</b>	<b>48</b>	<b>2</b>	<b>1</b>	<b>51</b>	<b>96%</b>	<b>94%</b>
Blended (less than 50% online)	25	1	1	27	96%	93%
Face-to-Face	23	1	0	24	96%	96%
<b>601-118 Sustainability for HVAC</b>	<b>39</b>	<b>9</b>	<b>0</b>	<b>48</b>	<b>81%</b>	<b>81%</b>
Blended (less than 50% online)	2	1	0	3	67%	67%
Face-to-Face	37	8	0	45	82%	82%
<b>601-121 HVAC/R Service &amp; Applications</b>	<b>46</b>	<b>0</b>	<b>1</b>	<b>47</b>	<b>100%</b>	<b>98%</b>
Blended (less than 50% online)	2	0	0	2	100%	100%
Face-to-Face	44	0	1	45	100%	98%
<b>601-122 HVACR Industry Skills 2</b>	<b>42</b>	<b>3</b>	<b>0</b>	<b>45</b>	<b>93%</b>	<b>93%</b>
Blended (less than 50% online)	42	3	0	45	93%	93%

**A/C, Heating, and Refrigeration Technician (31-401-1)**  
**2022-23 Course Success**

<b>Course &amp; Delivery Method</b>	<b>Successful Count</b>	<b>Unsuccessful Count</b>	<b>Withdrawal Count</b>	<b>Enrollment Count</b>	<b>% Successful Excluding Withdrawals</b>	<b>% Successful Including Withdrawals</b>
<b>601-123 HVACR Industry Skills 1</b>	<b>43</b>	<b>6</b>	<b>3</b>	<b>52</b>	<b>88%</b>	<b>83%</b>
Blended (less than 50% online)	41	6	3	50	87%	82%
Face-to-Face	2	0	0	2	100%	100%
<b>601-125 Safety - HVAC</b>	<b>41</b>	<b>8</b>	<b>2</b>	<b>51</b>	<b>84%</b>	<b>80%</b>
Blended (less than 50% online)	41	8	2	51	84%	80%
<b>601-130 Sheet Metal Layout</b>	<b>45</b>	<b>1</b>	<b>0</b>	<b>46</b>	<b>98%</b>	<b>98%</b>
Face-to-Face	45	1	0	46	98%	98%
<b>601-140 Electricity Theory</b>	<b>48</b>	<b>0</b>	<b>2</b>	<b>50</b>	<b>100%</b>	<b>96%</b>
Blended (less than 50% online)	48	0	2	50	100%	96%
<b>601-144 Solar/Wind Applications</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>100%</b>	<b>100%</b>
Blended (less than 50% online)	44	0	0	44	100%	100%
Face-to-Face	1	0	0	1	100%	100%
<b>601-145 Geothermal Applications</b>	<b>39</b>	<b>5</b>	<b>0</b>	<b>44</b>	<b>89%</b>	<b>89%</b>
Blended (less than 50% online)	39	5	0	44	89%	89%
<b>601-146 Schematic Wiring-HVACR</b>	<b>48</b>	<b>2</b>	<b>0</b>	<b>50</b>	<b>96%</b>	<b>96%</b>
Blended (less than 50% online)	48	2	0	50	96%	96%
<b>601-147 Schematic Wiring-Trblshtng</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>100%</b>	<b>100%</b>
Face-to-Face	44	0	0	44	100%	100%
<b>601-148 Electricity Principles</b>	<b>49</b>	<b>0</b>	<b>2</b>	<b>51</b>	<b>100%</b>	<b>96%</b>
Blended (less than 50% online)	49	0	2	51	100%	96%
<b>601-151 Technical Problems-HVAC</b>	<b>44</b>	<b>0</b>	<b>1</b>	<b>45</b>	<b>100%</b>	<b>98%</b>
Face-to-Face	44	0	1	45	100%	98%
<b>601-153 Basic Home Automation</b>	<b>44</b>	<b>1</b>	<b>0</b>	<b>45</b>	<b>98%</b>	<b>98%</b>
Blended (less than 50% online)	44	1	0	45	98%	98%
<b>601-163 Residential HVAC Load Calcs</b>	<b>38</b>	<b>6</b>	<b>1</b>	<b>45</b>	<b>86%</b>	<b>84%</b>
Face-to-Face	38	6	1	45	86%	84%
<b>801-196 Oral/Interpersonal Comm</b>	<b>31</b>	<b>9</b>	<b>1</b>	<b>41</b>	<b>78%</b>	<b>76%</b>
Blended (less than 50% online)	31	8	0	39	79%	79%
Online	0	1	1	2	0%	0%
<b>Grand Total</b>	<b>969</b>	<b>67</b>	<b>22</b>	<b>1,058</b>	<b>94%</b>	<b>92%</b>