



Student Learning Outcome Assessment

Air Conditioning, Heating & Refrigeration Technology
Spring 2015

Published: 04/29/2015

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Overall Experience.....1

Instructions Provided:

“Use this section to identify things you liked, things you would change, and to communicate any other comments about your overall experience in the program. If you have feedback about the instruction or anything else related to the overall program, please address that in one of these questions.”

Core Abilities.....2

Instructions Provided:

“This section addresses the college core abilities. The core abilities are overall skills that all graduates should acquire during their experience at Western. Focus on yourself in this section.”

Program Outcomes.....5

Instructions Provided:

“This section addresses the specific outcomes for your program. Please focus on yourself in this section.”

Conclusion.....8

Instructions Provided:

“Please use this space to share any other feedback, comments, or suggestions about your experience at Western Technical College.”

OVERALL EXPERIENCE

1. What did you like about this program?

Text Response

The fact that you learn about refrigeration, electricity, energy savings, the various forms of heating, the design aspect, and many other things that are interesting and vital to succeeding in this field.

I thought this is a great program, it is tough, it challenges you, and makes you hold yourself accountable if you want to succeed. The instructors take the time to sure you feel comfortable that you know the information. If you need extra help they are there for you.

Hands on learning experience. Good Instrustors with previous work experience in the field of HVACR.

I liked this program because of the lab that is located in the school. Not just trying to learn by someone talking. It helps in future

I liked the hands on learning that took place during the program

I liked the use of the computer programs to compare to the hand written work. I liked learning about floor plans and using the auto cad program to design .

Great teachers. Fun environment. Staff is devoted to helping students with any questions at any time.

Statistic	Value
Total Responses	7

2. What would you change about this program?

Text Response

Take more field trips.

I would like to see future classes have more opportunities to get hands on experience. Possibly design and install the HVAC system in the houses that the Woods Tech program builds.

Have more modern equipment to keep up with the times.

Nothing

I would change the program to better fit the hands on learning that people in our field desire.

I think the program is very good the way it is.

More hands-on activities in the second year.

Statistic	Value
Total Responses	7

CORE ABILITIES

3. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I have learned effective communication skills.	0	0	0	6	2	8

4. Provide any comments you have on effective communication skills you learned.

Text Response

definitely how to manage time skills along with talking in front of groups.

Statistic	Value
Total Responses	1

5. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I am able to apply mathematical concepts.	0	0	1	5	2	8

6. Provide any comments you have on mathematical concepts you learned.

Text Response

I am able to apply concepts of math to my learning but from previous knowledge no new knowledge is needed for my math. I dislike the requirement of college math because nowhere throughout this program did I have to do odds, statistics or probability. All 3 are concepts required for college math yet have no use in our program.

this program definitely helped me understand the math I was learning in college math when I WAS ABLE TO APPLY it in this program.

Statistic	Value
Total Responses	3

7. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I learned how to transfer social and natural science theories into practical applications.	0	0	1	5	2	8

8. Provide any comments you have on transferring social and natural science theories into practical applications.

Text Response

Statistic	Value
Total Responses	0

9. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I learned critical thinking skills.	0	0	2	3	3	8

10. Provide any comments you have on critical thinking skills you learned.

Text Response

Just during this program there is alot to learn in two years and some applications got a little confusing with others

I have a very good understanding of critical thinking due to my prior military history although critical thinking was always encouraged.

Statistic	Value
Total Responses	2

11. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I have learned to use technology effectively.	0	0	0	5	3	8

12. Provide any comments you have on what you learned about using technology effectively.

Text Response

Statistic	Value
Total Responses	0

13. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I have learned to value myself and work ethically with others in a diverse population.	0	0	0	5	3	8

14. Provide any comments you have on what you learned about valuing yourself and working ethically with others in a diverse population.

Text Response

Statistic	Value
Total Responses	0

15. As a result of this program:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
I am able to make decisions that incorporate the importance of sustainability.	0	0	1	5	2	8

16. Provide any comments you have on what you learned about incorporating the importance of sustainability in decisions you make.

Text Response

Statistic	Value
Total Responses	0

PROGRAM OUTCOMES

17. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
install HVACR systems.	0	0	1	7	0	8

18. Provide any comments you have about learning this program outcome.

Text Response

Installation ideas not a lot on hands on installation.

Statistic	Value
Total Responses	1

19. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
service HVACR systems.	0	0	0	6	2	8

20. Provide any comments you have about learning this program outcome.

Text Response

I learned basic knowledge needed to diagnos a system

Statistic	Value
Total Responses	1

21. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
repair HVACR equipment.	0	0	1	6	1	8

22. Provide any comments you have about learning this program outcome.

Text Response

not much of repair for air conditioning and heating...alot for refrigeration fix refrigerators/coolers
I learned basic knowledge needed to repair a system

Statistic	Value
Total Responses	2

23. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
troubleshoot HVACR systems.	0	0	0	5	3	8

24. Provide any comments you have about learning this program outcome.

Text Response

I learned basic knowledge needed to troubleshoot a system

Statistic	Value
Total Responses	1

25. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
analyze HVACR systems.	0	0	1	5	2	8

26. Provide any comments you have about learning this program outcome.

Text Response

Statistic	Value
Total Responses	0

27. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
evaluate building systems and plans.	0	0	1	5	2	8

Statistic	evaluate building systems and plans.
Min Value	3
Max Value	5
Mean	4.13
Variance	0.41
Standard Deviation	0.64
Total Responses	8

28. Provide any comments you have about learning this program outcome.

Text Response

Statistic	Value
Total Responses	0

29. As a result of this program, I learned to:

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
design HVACR systems.	0	0	1	5	2	8

30. Provide any comments you have about learning this program outcome.

Text Response

When going into design it can be overwhelming when 3 projects are working on

Statistic	Value
Total Responses	1

CONCLUSION

31. Please use this space to share any other feedback, comments, or suggestions about your experience at Western Technical College.

Text Response

It was great

I was nervous to come back to school after 20+ years, but when I returned the instructors made me feel that I had made the right decision to return to school. The instructors were also very helpful, very willing to help with things I didn't understand or had fallen behind on.

Statistic	Value
Total Responses	3