



Student Learning Outcome Assessment

Machine Tool Operation
Spring 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.....3

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.....7

Instructions Provided:

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

Conclusion.....12

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

I like how everything was hands on to get the work like experience in an educational way. The course teaches you all of the basic that one would need to know to have a great start in a career of machining. Although a single year course cannot teach you everything, i feel that i know enough that i can begin a career in machining right out of school and learn more while i am working. I feel like knowing how to machine parts gives me an ability to make anything in the world.

I liked the manual classes in this program.

I liked the amount of material I have learned in the time I have been here. The instructors are some of the nicest teachers around the campus. The cnc aspect of the class is probably the most useful of the whole program.

the manual shop days, being able to problem solve and figure things out on my own. i also liked seeing the outcome of my actions on the machines and seeing a finished part.

Overall experience is good! The amount I learned is pretty impressive. Also due to the program I was employed in the field before the end of the first semester! The one year program is a good thing too.

The experience that both teachers have. Both teachers have great knowledge of the subject. tod shaws math class

i liked the background knowledge of machining i gained. i enjoyed the students in my program. i enjoyed being taught by one of my instructors.

I liked that though the course was tough for me, I was able to accomplish it with enough hard work and dedication to studying. I learned that the machining field I have gotten involved in is more difficult than I had at first anticipated but I'm learning how to do it and feel a great sense of accomplishment.

Statistic	Value
Total Responses	10

2. What would you change about this program?

Text Response

No

With two different instructors for manual and cnc machines, each one may provide a different point of view on how things may be done. it may cause some confusion but i believe two different instructors is a must.

I would change the pace of the class and add more of your own projects.

I would change the manual classes to all cnc classes and make the same projects with the same teachers in their respected classes. If I were doing this program, i would have it so that the students would have to do everything, from setup to operation and inspection.

i would switch it back to a 2 semester program. after 2 semesters it gets to be pretty repetitive and lacking of interest. this is going to be a long summer.....

Book prices are steep for the amount of usage we got out of several of them. Some of the work in some of the classes seemed a little silly.

The way one of the teachers talks to students can be very disrespectful . Have better directions in the CAM program.

if it didnt start at 6:50 every morning that would be awesome

I would change how multiple courses were run. the cnc courses with a certain instructor i dreaded coming to. we were constantly chastised for doing things just slightly different than what was taught. constantly being looked over our shoulders as working and making us feel stupid if we didnt know the answer to one of her questions immediately. i was put down in front of my classmates on several occasions. The instructor single handedly ruined that part of my experience at this college. i would not recommend this program or school to anyone i know. also there needs to be some sort of conformity between instructors. it is a constant battle whether to follow what you have learned from one instructor to the other. and again if you chose incorrectly you were chastised by this instructor for doing something wrong. The instructor was hypocritical about using foul language - would yell at one student for swearing and saying would remove one point for every cus word but had no problem letting foul language out of own mouth on occasion. i hate coming to this instructor's classes and am not looking forward to the upcoming seven weeks where i have class with everyday. i could go on and on about the displeasures and disappointments this program has brought be because of this instructors teaching style. i feel as though i could have learned more in the machining field if i would have continued working full time in a shop.

I spent \$140 on a USED textbook that I ended up using twice (to complete/read two chapters). It would have been more beneficial to me if the college would have made copies (for educational purposes) if our instructor had only intended to utilize the text book for two chapters and I would have been allowed to save me some money.

Statistic	Value
Total Responses	10

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	1	1	5	3	10

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

Text Response

I have learned to communicate to others better.

Shop terms

learned how to interpret blueprints and features

I'm not sure I understand the question as this is not an English Grammar course. I've learned that there's a definite "shop grammar/way of explaining things" that I'm not very accomplished in speaking, but I did not necessarily learn how to communicate more effectively.

Statistic	Value
Total Responses	4

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	2	4	4	10

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

Text Response

Our math teacher was excellent. although some of our math was in different spots during the math course and our shop courses whatever we were taught by our math teacher it was easy to relate it to the shop.

When we are learning hidden dimensions, i think they should introduce us to trig functions at that time instead of learning it down the course.

Algebra, ratios, percents, trigonometry

math courses were outstandingly taught by todd shaw.

N/A

Statistic	Value
Total Responses	5

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.	2	0	4	3	1	10

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

Text Response

N/A

Statistic	Value
Total Responses	1

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.	1	1	0	4	4	10

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

Text Response

Critical thinking is a very large part of the entire program.

Statistic	Value
Total Responses	1

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	1	5	4	10

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

Text Response

Technology is a very large part of the program.

i feel like maybe about half the material well use in the workplace and half is stuff we dont really need to know

Statistic	Value
Total Responses	2

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.	1	1	4	3	1	10

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

Text Response

The real diversity in my program.
the teachers pretty much yell at u and humiliate you if u dont understand something or ask the same question more than twice. this has happened to me on several occations, im learning but not the way id like to be,

Statistic

Value

Total Responses

2

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	1	2	5	2	10

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
apply basic safety practices in the machine shop.	0	0	0	2	8	10

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

Text Response

we spent the first few weeks covering safety and the instructors are very stern about safety acutally safety is one of the first things we learned

Statistic	Value
Total Responses	2

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

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
perform set-up and operation of basic manually operated metal working machines.	0	0	0	3	7	10

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

Text Response

everyday

we learn the same thing from beginning to end. i mean it varies in the application but i know about the same amount as i did at the beginning of the program

Though I have learned a great deal about machining, too much of this program/class material seems to be "crammed" in such a short session that I find it difficult to believe that any of my classmates (myself included) have retained much information, which seems to be proven in some of the class projects that we've done. I, myself, am one that retains information easier with repetitive, hands-on experience. Much of the course material seems to be, "Here it is, don't forget it..." only.

Statistic	Value
Total Responses	3

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

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
interpret industrial/engineering drawings.	0	1	1	4	4	10

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

Text Response

everyday

definantly opened my eyes on how things are made as far as the process from being a chunk of steel to a finished product

do more work with the gd&t course. i was very disappointed in how that was taught.

My firts semester instuctor was an instructor who had been newly hired and apparently didn't have his own ciriculum. I do not believe that I learned as much as I was supposed to have and in many ways feel like I'm lagging behind the rest of my classmates (who had another instructor for the same course).

Statistic

Value

Total Responses

4

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

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
apply precision measuring methods to part production and inspection.	0	0	0	2	8	10

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

Text Response

everyday

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
perform programming, set-up and operation of CNC machine tools.	0	1	1	1	7	10

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

Text Response

everyday

theres so much material on g codes that i dont feel is necessary. most shops will not have you programming cnc machines from scratch, a program called mastercam or feature cam is generally used

with the constant overlooking and not being allowed to work with the machines comfortably and at our own pace i didnt get that much time with the machines. there were days i would sit and observe someone all day long and only two people got to touch machines after 8 hours because she has to watch and approve every little thing you do which slows down the process when youre waiting for her to finish watching the other student and come to watch you.. disappointed to say the least.

Statistic	Value
Total Responses	3

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

Question	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Total Responses
make machine and/or tooling selection decisions according to accepted machine tool practices.	0	1	1	2	5	9

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

Text Response

This is a hard concept to grasp in class because without years of experience its hard to know what tooling to chose for certain projects. In our shop we use the limited resources we have, and out in the job world their is so many different tools that this can be challenging to learn. everyday

This is no fault of the instructor(s), rather that again, much of the material was either learned through lectures/books. Reading and retaining information is significantly different that being able to apply what one has learned through books/lectures.

Statistic	Value
Total Responses	3

CONCLUSION

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

Text Response

I am very glad i took this course. i now know a lot more in this industry and i can't wait to learn more while i am working in the field.

my experiance at western tech has been dreadful to say the least. from the fact of feeling like i am being baby sitted as an adult is very frustrating, i understand the value of the machines, but as an educated adult, i did not come back to school to be treated less than or equal to a freshman in highschool. the fact that i have put all this work in and still not be done in 2 semesters, when i feel i have already capped on the information i am learning, is extremely upsetting. so far i sort of regret moving away from home to further educate myself.

Overall this experience has been excellent. Small class size was great for more personal help from instructors on a daily basis. The shop facilities are great for learning. High quality instrucors.

this program is quite depressing, i dont enjoy coming to school, theres a handfull of days that i enjoy but i guess school isnt supposed to be fun. really like that its a one year course thoug. i wouldnt have done it if it was a 2 year

make grades of the classes readily available so you can see how youre doing in the class and make adjustments. treat every student the same. i felt singled out the majority of this course because one instructor and i didnt get along. i am almost certain that my grade in those classes will reflect this. i cannot wait to be done with this program and get out of this school. i had an awful experience here. hire a new teacher for this person's position. randy was a great level headed teacher that worked through problems with you efficiently and didnt make you feel like an idiot if you didnt know the answer. also dont make us buy \$146 used books that we only read six pages out of. i dont have that kind of money to be wasting.. make photo copies and hand them out. ill gladly pay the printing fee in my tuition. overall as ive said multiple times now i was very disappointed and i hope that something changes with this program. and quickly as im here throughout the summer unfortunately. i hope someone actually is reading these surveys. thank you.

For the most part, my experience has been a very pleasant one. However, there seems to be a lack of understanding on both the students and instructor's behalf of the diversity of the students going to college at W.T.C. There have been numerous conversations that I've heard taking place around me where individuals involved in conversations have no idea of the "nerves" that they may be stepping on or how sensitive others around them may be. Of course, this is an adult learning center and individuals can only control their own actions, but sometimes it seems like some Sensitivity Training would go a long ways for both students and instructors.

Statistic	Value
Total Responses	6