

**Fullerton College
Manufacturing Technology
Machine-Metrology-Automated Technology Advisory Committee**

Agenda

Fullerton College Manufacturing/Machine/Metrology/Automated Technology

321 E. Chapman Ave.

Fullerton, CA 92832

Friday May 9th, 2025, 3:30pm to 5:00pm

Room 728 in 700 building

- **Welcome and Introductions:** Dan O'Brien, Department Coordinator
- **Department Update:** Dan O'Brien/ George Bonnard, Faculty
- **Apprenticeship Program**
- **New and On-Going Department Grants**
- **New Curriculum/Courses/Certificates**
- **New Potential Curriculum**
- **New Equipment/Software**
- **Future Staffing and Space Requirements**
- **Donations**
- **Student Recruitment and Conference Activities**
- **Round Table Discussion**
- **Department Motions**
- **Committee Members**

Proposed Discussion Items

Department Update: (Note: Items will be discussed at varying levels of detail)

Apprenticeship Programs:

- Number of cohorts currently enrolled -we have 1 cohort of 2 students at this time.
- New Machinist Cohorts from CTMAA (California Tooling Machining Apprenticeships Association)-Update on cohorts (2 individuals from Keysight Inc.) started Fall 2021. One cohort (1 student from Keysight) started Fall 2022.
- DIAG apprenticeship program-we have embarked on starting an apprenticeship program using DIAG and NetKinnect partners.

New and On-Going Department Grants:

- Strong Workforce Initiative Funding for Machining and Metrology. New funding has been requested for the 2025-2027 academic years for \$470,000 to update Metrology and CNC tooling/equipment.
- VTEA Funding-No new funding has been requested this past year however funding may be requested for 2026-2027 academic year.

Study Abroad Program:

- First Study Abroad course (TECH 108F-Manufacturing Processes) for the Technology and Engineering Division in the summer of 2024 from June 10th to July 20th was offered and was a success. This Study Abroad course traveled to Germany to see Automation and car factories.
- Our second Study Abroad course (TECH 108 F-Manufacturing Processes) for the Technology and Engineering students will be offered again in the Summer of 2026. Approximately dates will be from June 9th to July 19th 2026. This Study Abroad course will travel to France to see a variety of manufacturing companies.

New Curriculum/Courses/Certificates -Review of Courses and Programs (Unit Revision, Descriptions, SLOs, Objectives, Course Content/Outlines, Textbook, etc.):

- Machine Technology Level I is State approved as of Fall 2018 -See proposed revisions 2026
- Machine Technology Level II is State approved as of Fall 2019-See proposed revisions 2026
- Manufacturing Technology A.S. degree is State approved as of Fall 2019-See proposed revisions 2026
- Mastercam Certificate is approved as of Fall 2018-Revised 2022 to include MACH 151 F- See proposed revisions 2026
- Surfcam Certificate is approved as of Fall 2018-In process of being revised to CAM Certificate-See proposed revisions 2026
- CNC certificate is State approved as of Fall 2019-See proposed revisions 2026
- CNC Operator Certificate-revised certificate is State approved as of February 2021-See proposed revisions 2026
- Conversational Programming Certificate is State approval as of October 2021-See proposed revisions 2026
- Mini-Metrology Certificate is State approved as of February 2021-See proposed revisions 2026
- Metrology Certificate is State approved as of April, 2019-See proposed revisions 2026
- Swiss Lathe Certificate is State approved as of April 2019-See proposed revisions 2026
- Electro-Mechanical Technician Certificate-is State approved as of Fall 2021-See proposed revisions 2026

- Automation Fundamentals Certificate-is State approved as of Fall 2022-See proposed revisions 2026
- Industrial Maintenance Certificate-is State approved as of April 2019-See proposed revisions 2026
- Engineering Technology Certificate-is State approved as of October 2021-See proposed revisions 2026
- Industrial Technology AS-is State approved as of April 2019 -See proposed revisions 2026
- Theme Park Technology Specialist is State approved as of July 2020-See proposed revisions 2026
- Fusion 360 course-Mach 157 F -See proposed revisions 2026
- All Machine/Metrology Technology courses are now completely revised as Level-100 or higher and are State approved. See Table 1 and 2--See proposed revisions 2026
- All courses have been reviewed to determine whether courses can be taught online/hybrid or not. Most courses can be taught Hybrid with only a few that can be taught totally on-line. Some courses in the Machine Technology and Technology departments simply cannot be taught in a hybrid or on-line fashion. Courses in the Machine, Metallurgy, and Technology areas are encouraged to be taught in person.
- As of March 2024 the courses and programs in the Machine Technology department and some of the courses and programs in the Technology department will commence and undergo a 2-year/6-year review process as requested by the State for updating and accreditation. -See proposed revisions 2026
- Members to review Courses and Programs for Descriptions, Objectives, Student Learning Outcomes (SLOs), Textbooks, Course Content, Methods of instruction, Methods of evaluation, etc. for all courses/programs per handout material. See Table 1, 2, 3, and 4. -See proposed revisions 2026

Note: See addendum materials (Zip files) for Programs and Courses (below) which have been emailed to all participants.

Table 1-Machine/Metrology Technology related courses (** in front of the course name indicates courses have been reviewed/revised for SLOs, Unit Revision, Textbooks, Objectives, Course Content, Descriptions, Prerequisites or similar, online/hybrid instruction and/or any other changes as deemed necessary by faculty.)

**MACH 101 F Introduction to Machine Tools *Active* Pending changes.	**MACH 110 F CNC Machine Set-Up and Operation *Active* Pending changes.	**MACH 142 F Advanced CNC Swiss Style Lathe Set-up and Operation *Active* Pending changes.	**MACH 157 F Computer-Aided Manufacturing *Active* Pending changes.
**MACH 102 F Intermediate Machine Tools *Active* Pending changes.	**MACH 115 F CNC Parts Programming *Active* Pending changes.	**MACH 145 F Basic CNC Swiss Style Lathe Programming and Applications *Active* Pending changes.	**MACH 180 F Introduction to Metrology *Active* Pending changes.
**MACH 103 F Advanced Machine Tools *Active* Pending changes.	**MACH 116 F Machine Tools *Active* Pending changes.	**MACH 150 F CNC Programming Using Mastercam *Active* Pending changes.	**MACH 182 F Introduction to CMM Inspection and Romer Arms *Active* Pending changes.
**MACH 104 F Advanced Topics in Machine Technology *Active* Pending changes.	**MACH 120 F Advanced CNC Machining *Active* Pending changes.	**MACH 151 F Mastercam Lathe "Pending State approval" Pending changes.	**MACH 184 F Advanced CMM and Romer Arm Inspection *Active*
**MACH 105 F Conversational Programming I *Active* Pending changes.	**MACH 130 F Multiple Axis CNC Set and Operation *Active* Pending changes.	**MACH 153 F Mastercam Multi Axis *Pending* Pending changes.	**MACH 185 F CMM and Romer Arm Applications *Active* Pending changes.
**MACH 106 F Conversational Programming II *Active* Pending changes.	**MACH 140 F Basic CNC Swiss Style Lathe Set-up and Operation *Active* Pending changes.	**MACH 154 F CNC Programming Using CAM *Active* Pending changes.	**METL 192 F Metallurgy *Active* Pending changes.
		**MACH 156 F Advanced CNC Programming Using CAM *Active* Pending changes	

Table 2-Technology Related Courses (** in front of the course name indicates courses have been reviewed/revised for SLOs, Unit Revision, Textbooks, Objectives, Course Content, Descriptions, Prerequisites or similar, online/hybrid instruction and/or any other changes as deemed necessary by faculty.)

**TECH 081 F Technical Mathematics I *Active* Pending changes.	**TECH 108 F Manufacturing Processes *Active* Pending changes.	**TECH 135 F Introduction to Programmable Logic Controllers *Active* Pending changes.	**TECH 199 F Technology and Engineering Independent Study I *Active* Pending changes.
**TECH 082 F Mathematics II *Active* Pending changes.	**TECH 127 F Industrial Safety *Active* Pending changes.	**TECH 136 F Computer Integrated Manufacturing and Advanced PLC *Active* Pending changes.	
**TECH 088 F Technical Science *Active* Pending changes.	**TECH 131 F Basic Electricity and Basic Electronics *Active* Pending changes.	**TECH 137 F Electronic Instrumentation and Networking *Active* Pending changes.	
**TECH 101 F Introduction to Technology *Pending*	**TECH 132 F Basics of Electric Motor Controls *Active* Pending changes.	**TECH 138 F Electronic Instrumentation and Networking II *Active* Pending changes.	

Table 3-Machine Technology Related Programs (** in front of the Program name indicates program may be revised for Unit revision, Coursed revision, Description, Program Student Learning Outcomes (PSLO) and/or any other changes as deemed necessary by faculty.)

**CNC Operator Certificate	**Conversational Programming Skills Certificate	**Manufacturing Technology AS Degree	**Metrology Mini Skills Certificate
**Computer Aided Manufacturing (CAM)*	Machine Technology Level I Certificate	**Mastercam Certificate* and New Mastercam Certificate for Multi-Axis	**Surfcam Skill Certificate-Pending changes
**Computer Numerical Control (CNC) Certificate	**Machine Technology Level II Certificate	**Metrology Certificate	**Swiss Lathe Certificate

Table 4-Technology Related Programs (** in front of the Program name indicates program may be revised for Unit revision, Course revision, Description, Student Learning Outcomes (SLO) and/or any other changes as deemed necessary by faculty.)

**Automation Fundamentals Certificate	**Industrial Maintenance Technician Certificate	**Theme Park Technology Specialist Certificate
**Electro-Mechanical Technician Certificate	**Industrial Technology AS*	**Engineering Technology Certificate

Vote: All in favor of approval of changes to items listed above in Table 1, 2, 3, and 4

New Potential Curriculum

- **Mastercam Multi-Axis certificate**
 - Creation of a new course MACH XXXF for 4-5 axis programming. New certificate would include MACH 150F; MACH 151F; MACH 152F; MACH 157F; and new MACH 153F. Vote.
- **Open for discussion**

New Equipment/Software:

- **Open for discussion**

Future Staffing and Space Requirements:

- Additional space is needed for equipment (Romer arms) and Inspection Workstations. Another Instructor is needed to teach the Metrology Program and other disciplines. This request has been put into the Program Review for approval.

Donations:

- Gene Haas Scholarship- \$22,000-for year 2024-2025
- CAM Tooling Association Scholarship-\$5000 2024-2025
- Horatio Alger Association-\$2500
- Master Chemical/Coast Industrial’s donations include—Trim Sol Microsol 585xt Coolant, oils, cleaners, and cutting tools.
- Esprit Software-CAD/CAM software

Student Recruitment and Conference Activities:

- Machine Technology Facebook Page
- Fullerton College Machine Technology LinkedIn Page
- Technology and Engineering Website-revised
- START event-July 2024-table in Quad

- Mfg. day-October 2024-tours-6 high schools-approximately 80 students
- Promise Center-October 2024-tours-3 high schools-approximately 30 students
- Orange County Workforce Innovation-February 2025-23 high schools-approximately 100 students
- Jump Start event -May 2025-table in Quad

Round Table Discussion

- **Directed by Faculty**

- **Committee Members request and comments (Open forum)**

Meeting Minutes

The following is a summary of the meeting minutes for the May 9th Machine-Metrology and Automated Technology Advisory Committee Meeting.

A recording of the meeting via zoom link is provided below as reference.

https://fullcoll-edu.zoom.us/rec/share/shHeHXopyIR-8m3-W1cx0cYYA_VxSHZdG-f9NMQoi2Xu1HUUWTbBzM4b2mbdTaw5.xzREbrOi0hLA3Jxa?startTime=1746826537000

Please note that zip files containing the courses and programs for Machine Technology and the Technology department were emailed (on April 21st, 2025) to committee members prior to the meeting on May 9th, 2025, for review.

Attendees:

Brooke Haueisen- Anduril Corporation
 Dan O'Brien-Machine Technology Department Coordinator
 George Bonnard-Machine Technology Instructor
 James Durate-Machine Technology Instructor-Adjunct
 Ken Starkman-Dean of Technology and Engineering
 Christi Zmuda-Moseys Production
 James Kumler-Moseys Production
 Olivia Barajas-Fullerton College Counselor for Technology and Engineering
 Jorge Ramos-Network Kinecton
 Jorge S. -OCRC
 Fergie Santos-Director, Development and Retention
 Dick Herman-CMTAA

Meeting came to order at approximately 3:35 PM on 5-9-25 in room 728 at the Fullerton Campus.

Dan O'Brien (Department Coordinator) welcomed committee members an introduction and then asked that everyone introduce themselves to the committee. Members introduced themselves to everyone during the meeting.

Dan then began by presenting the agenda items for the meeting. Dan brought up the Tableau dashboard and went over the statistics for Manufacturing and Machine Technology programs. We are in a growing trend according to the data presented in Tableau. Dan spoke about the Swiss Lathe courses and CNC advanced courses which are being offered. All courses are being offered and taught this semester.

Apprenticeship Programs:

Dan then transitioned to the apprenticeship programs that are being offered at Fullerton College. (13:59) Fullerton College in Machine Technology offers both traditional and non-traditional apprenticeship type programs. Dan spoke about some of the specific programs from Keysight technology and from the Diag organization. We are also picking up students from NTMA which is closing down. Due to our relationship with NTMA many students are joining the Fullerton College Machine Technology program. Due to some outreach from Mynetkinect we have more students that will be attending the Fullerton College Machine Technology program. Ken Starkman stated we will have one more student from Robinson Helicopter joining the program in the Fall. (15:27) Dan stated that Robinson Helicopter will be expanding it's operation and will most likely need our students for their operation.

New and On-Going Department Grants:

(15:53) Dan then transitioned to the Department grants that we have obtained and have applied for this year. We have obtained a grant with the help of Ken Starkman for apprenticeship start ups. The grant we currently have is to find employers that maybe interested in having an apprenticeship program. This is joint effort between Diag; NetKinnect; and Fullerton College. We have found that many companies are interested in this program. There will be an informational session given at a BBQ scheduled for Friday May 16th, 2025, at around 3:30 PM for all employers interested. (16:40) We are also applying for a Strong Workforce grant this coming year. The grant would be \$470,000 to help with the updating of Advanced Metrology and CNC programs. This money would be spent on new Metrology equipment as well as the replacement/repair of some broken equipment and the purchase of new 5 axis CNC equipment. We are finding that we need this money to maintain and sustain our programs due to student wear and tear. The reason for the wear and tear on this metrology equipment is due to the fact that we do not have enough room in our current lab. (17:26) Currently we are assembling and disassembling the metrology arms and equipment for every session of the course. Assembling and disassembling 32 times per semester (16 weeks X 2 =32 times during a semester). Students do not always handle the metrology arms with care so they do break from time to time which is costly. We have repaired the arms in the past (to the tune \$30,000) and we are in the process of doing these repairs again this year. We are hoping that we obtain the grant money so that we can make the necessary repairs and continue with advancing the program. We should hear about whether or not we obtained the grant money in the next couple of weeks.

New Curriculum/Courses/Certificates:

(18:36) Dan stated that we added a Master cam turning course and a Mastercam multi axis program course.

(20:37) George Bonnard spoke about the Study Abroad Program and the TECH 108F course that was offered in the Summer 2024 (to Germany to visit the Auto Plants) and the course that will be offered in the Summer 2026 (to Grenoble France to visit various manufactures in the region). A summary regarding the course was given to the committee.

(22:30) George then transitioned to the proposed course and program revisions as well as new courses. George referred to the hardcopy packets for the Machine Technology courses/programs and the Technology courses/programs. These packets were also emailed (zip files) to all committee members in April, 2025 for review. George explained the review process to the committee and the need to be up to date and for LMI data to determine whether or not there is a need for such programs. This process allows us to maintain and attract students to our college.

(25:25) George went on to talk about the various courses and programs related to Machine Technology and the Technology program. (26:40) Dan stated that many of the Technology programs and courses were a spinoff of the Disney program which allowed us to create ancillary courses and programs under the Technology prefix. George went on to talk about the courses and programs listed in Table 1, 2, 3, and 4.

(28:01) George asked for a vote by committee members to approve all proposed courses and programs listed in Table 1, 2, 3, and 4. All committee members voted in favor of approving all proposed courses and programs listed in Table 1, 2, 3, and 4. There were no objections or abstentions.

(28:16) George then went on to state that each course has a limit of 20 students per course. George asked if there are any objections to keeping it at 20 students per course. George asked for a vote by committee members to approve and maintain the student class size to 20. All committee members voted in favor of approving and maintaining the student class size of 20. There were no objections or abstentions.

(30:40) Dick Herman asked a question regarding class size for critical path courses. His question centered around whether or not low enrollment courses would run even if the course had low enrollment. George stated that courses in the technology programs are supported by our dean and that low enrolled courses are combined with other courses so that the course can be run during the semester. Dick state his appreciation of Fullerton college combining courses for apprenticeship students so that students can complete their programs in a timely manner. Dan and George gave examples of the MACH 140 F; 142F; and 145F courses that are currently running with 6 students combined.

(31:59) Olivia Barajas asked a question about the non-traditional apprenticeship program and whether a student can be a brand-new student. Dan stated that they can be a brand-new student and, in many cases, they are brand new students from participating companies. (32:52) George went on to explain the process of the non-traditional apprenticeship and how it works for students to enter such programs. There are no prerequisites or qualifications to get into the program. (34:23) Between the DIAG program; the mynetkinnect program; and Fullerton college which work together a student can come in

unemployed; get employed; get enrolled in the program and the college; complete the program; and obtain his apprenticeship certificate. A discussion ensued regarding how apprenticeships worked in the past and how they work today. A discussion also ensued regarding traditional and non-traditional apprenticeship pathways. (40:30)

New Potential Curriculum:

(40:36) Dan spoke about new potential curriculum needs from Robinson Helicopter. Sheet metal forming was mentioned as a possibility to be incorporated into the curriculum. James Duarte did mention that it would be nice to have sheet metal project incorporated into the curriculum from what has been seen at Robinson Helicopter. A discussion ensued regarding the possibilities of incorporating some sheet metal project into the curriculum however the Fullerton College Welding department does have some sheet metal equipment and does offer a Welding Fabrication course as well as room to expand. (43:59) Dick Herman ask a question asking us about courses in die making, Injection mold making and high-speed machining. Dick also stated that there is a resurgence of demand for such courses. George responded to his question stating that it very difficult to teach Die making and Injection Mold making as this would require us to have press for dies and injection molding machine for molds so that the tools can be proved out. This would require a lot of space which is at a premium in our division. (46:01). Dick also asked about Blueprint reading and applied GDT courses. Dan stated that we have the DRAF 101F and DRAF 173F course which cover those specific subjects. In addition, the MACH 180F; MACH 182F; MACH 184F; and MACH 185F all used applied blueprint reading and GDT to do inspection of parts using various metrology equipment including hand tools. Ken Starkman stated that we have a very good instructor, Tim Huddy, that teaches the GDT course. (48:33) Dick then asked about a course for Quality Inspectors. Dan stated that we have a program that fits that need exactly with the Metrology Certificate and Metrology Mini Certificate. A discussion ensued among committee members regarding combining courses and finding spaces for such courses as Metrology; additive manufacturing; 3D printing; and other courses. However, Dan pointed out that we do not have enough space to do what courses we are doing currently. Another discussion ensued among committee members regarding a course on tooling; inspection; additive manufacturing; casting; forging dies; and 3D printing. Dan explained the pros and cons of this technology and what we currently do to the committee members. (52:40) Ken Starkman stated that he liked what we were doing and that he is working on combining 3D printing into various courses to prove out ideas and concepts.

(57:01) James Duarte mentioned that a short course on assembly that uses tools would be needed for students since most students lack the mechanical skills/knowledge necessary to proceed in a mechanical area. Knowledge and skills on how to use basic tools, how to tighten with a wrench, how torque works, how ratchet wrenches work, in summary how things go together and work. This type of course would supply the basic skills and orientation to enter manufacturing programs. Safety, measuring, use of shop tools and power equipment would be introduced and reinforced.

Ken Starkman stated he was in favor of doing a short course for students. Dick stated that other colleges have a short course for apprentices on the basics necessary to proceed with the program. Reedley college current has a program and Dick stated he would stop by to discuss this with George Bonnard (01:01:07). Ken Starkman stated LA Trade Tech has a program like this as well.

New Equipment/Software

(54:44)

Dan gave an overview of the current equipment that we have in the shop. Dan when on to mention how obtaining the \$470,000 Strong Workforce grant proposal would increase our machining capabilities. Dan asked the committee if there any other tools or software that might be needed to support the student skills industry.

George stated that the air compressor may be need to be replaced at some point since the age of it and repair of it seems to be increasing.

James Duarte stated DROs would be good to have since many of them are broken. (01:03:05)

Future Staffing and Space Requirements:

(01:03:24)

Dan went over the current stats for our current program regarding teaching staff and the number of courses that are being taught by the two full time and nine part time faculty. The two full time faculty (Dan O'Brien and George Bonnard) teach 44% of the machine tools courses and the remaining 56% are taught by the nine part time teachers. (01:03:52) The machine technology program is becoming busier with courses and students. The metrology program would need an additional faculty member to support more growth in this area. Fortunately, we Brooke Haueisen and Sal Arceo who are excellent part time faculty members to support the metrology program however we need a full-time faculty member and more space for Metrology equipment to sustain this program and make it successful. (01:05:35)

Donations:

(01:05:52)

Dan stated that we receive used tools and tool boxes from various individuals that have retired or have passed away. These tools are passed on to students in need of tools.

Gene Haas Foundation

We have currently \$22,000 that has been given to the Machine technology department to pass along to students. Currently we are spending this money to obtain tools and tool boxes for students who have applied for the Gene Haas Scholarship. (01:06:30) There will be 17 tool kits (with various tools and items) for students that will be given away at the end of the semester during our bi-annual BBQ.

CAM Workforce Organization

(01:07:15)

This is a group of manufacturing employers who support students in this field. They typically award \$500 scholarships to the students who apply and qualify.

Horatio Alger Association

(01:07:54)

This scholarship goes to student in manufacturing or engineering and the typical amount is around \$2500 which helps pay for school supplies such as laptops and other equipment that may be necessary for school.

Hexagon Metrology

(01:08:27)

Hexagon has donated software to us since we are an educational institution.

Esprit Software (CAD/CAM)

(01:08:39)

Esprit has donated software to us since we are an educational institution.

Westwood Products

(01:09:55)

Westwood has donated wood to our program for the checker board sets that are made by our CNC machines. Westwood has donated all the wood we would need for the next 2 years.

Student Recruitment and Conference Activities:

(01:10:25)

This year we have gone to many high school career day events. Dan went on to state that we supported the following pages and events:

- Machine Technology Facebook Page
- Fullerton College Machine Technology LinkedIn Page
- Technology and Engineering Website-revised
- START event-July 2024-table in Quad
- HAAs Educational Regional conference in 2024
- Hexagon Live conference in June 2025
- Jump Start event in May 2025 -table in Quad -4 high schools
- Mfg. day-October 2024-tours-6 high schools-approximately 80 students
- Promise Center-October 2024-tours-3 high schools-approximately 30 students
- Orange County Workforce Innovation-February 2025-23 high schools-approximately 100 students

(01:14:58) George stated to the committee members that the numbers for recruitment are looking good and that the enrollment numbers that are listed in Tableau for 2025 (1072) are only for the 2025 Winter/Spring semester. This would indicate a big jump in enrollment for this semester and that this number will grow next semester. George gave an overview of the number of sections that are being offered for various courses in Machine Technology. Another section of MACH 101F could be possible since that course seems to fill every semester. This course is the starting point for all other courses and would help fill other courses.

Round Table Discussion:

(01:16:02)

Dan and George asked for feedback from the committee members.

Committee members stated that everything we are doing currently is on track with what we need in the industry. Committee members engaged in a discussion that was centered around new students; returning students; students upskilling; degreed engineers coming back to school to learn how to machine; and others. Committee members engaged in another discussion of how to get more students introduced to the Machine shop lab and other areas.

It appears that many high school students never know that we even exist. New students never get a chance to come visit the CTE area and what they have to offer. (01:20:09) Ken Starkman suggested perhaps we could offer a 3-day summer experience course for math/physics instructors which could include a half of a day of metrology; half of a day of CAD; half of a day of CNC. This would allow them to leave with a certificate; perhaps a pay stipend; and maybe a project in hand. This would give instructors a chance to learn about what we do and perhaps this information would translate to students who are on a pathway to transfer to 4-year schools since the students talk to the math and physics professors at time about their overall goal. (01:21:33). Ken Starkman stated a tour could be given to instructors of the companies in our industry. James Duarte stated physics teacher could benefit from such a course since many tools and equipment in testing labs are dependent on someone making the tools and equipment for them (machinist). Dan talked about a pass course he ran for high school student which showed students how to make a small engine. A discussion ensued regarding different ideas of what type of course could be offered to instructors; high school teacher; counselors; etc. to make them more aware and engaged in the Machine Technology program and others.

In closing George stated to committee members that all items in Table 1, 2, 3, and 4 have been approved along with the student class size of 20 students.

George stated he would write up the meeting minutes and distribute to all attending members.

Meeting adjourned at 4:55PM on May 9th, 2025

Actionable items:

- **Review of Sheet Metal Forming**
- **Injection Molding**
- **Additive Mfg.**
- **Assembly-How to use tools-perhaps a short course**
- **New equipment needs**
 - **Air compressor/Replacement**
 - **DROs**
- **Tech Demo projects for GE/Math Teachers**