CTE Outcome Assessment Plan for degrees or Certificates 2022-23 Advanced Manufacturing Certificate

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| 1. Outcome
 | 1. Criteria or Target
 | 1. Measurement Tool (course and assignment)
 | 1. When/how and by who analysis of assessment will be accomplished
 | 1. Program Assessment and Recommendations
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| Students who complete the AAS degree should be able to: |
| 1.Interpret technical drawings to determine product manufacturing specifications. | Read and understand blueprints as they pertain to manufacturing. | MFG 155, 156, 157; written and hands on assessments per course | 2027-28 Advanced Manufacturing and Fabrication Department.  | MET: 90% of students passed with a 70% or higher. |
| 2.Apply safe practices in an industrial environment around machinery, power tools and chemicals. | Use correct PPE and safe working practices in the shop equipment. | All courses; primarily MFG195 through SP2 industrial safety (industry standard). Tool by tool in all other courses. | 2027-28 Advanced Manufacturing and Fabrication Department. | MET: All students passed all modules. |
| 3.Operate welding equipment and tools to produce products to required specifications. | Create production appropriate welds and prepare for AWS certification testing. | MFG195, MFG150, MFG151, MFG152, MFG155, MFG156, MFG157, MFG280, MFG281, MFG282, MFG285, MFG286, MFG287.Hands on industry recognized certification procedure testing (Primarily AWS) and written assessments. | 2027-28 Advanced Manufacturing and Fabrication Department. | MET: Across all assessments, 90% of tests were passed at a 70% or higher; but not for all students. In the future this assessment will be broken down further. See analysis. |
| 4. Utilize computer software to produce blueprints and welding annotations | Design and create products from blueprints created on software used in industry. | MFG 155, MFG156, MFG157Both computer and written exams as well as hands on blueprint fabrication. | 2027-28 Advanced Manufacturing and Fabrication Department. | MET: Across all assessments, 90% of tests were passed at a 70% or higher; but not for all students. In the future this assessment will be broken down further. See analysis. |

Submitted by: Robert Wells-Clark Date: 7/15/2023

Plans to be submitted to Title III Academic Assessment Coordinator (kbooth@cgcc.edu) by Nov. 15th of academic year being assessed

Results to be submitted to Tittle III Academic Assessment Coordinator (kbooth@cgcc.edu) by July 1 of the following academic year being assessed