



PROGRAM OUTCOMES

COMPUTER-INTEGRATED MANUFACTURING (CIM) (CERTIFICATE OF PROFICIENCY)

1. Communication. Communicate effectively and efficiently with diverse individuals and teams, all levels of employees, customers, and suppliers by means of verbal, written (memos, reports, emails, etc.), graphics, symbols, and effective listening skills and using appropriate technology.
2. Soft Skills. Complete tasks and projects on schedule through the effective use of time management, appropriate math skills, and teamwork that fosters inclusion, synergized efforts in problems identification, and troubleshooting for successful resolution of problems towards the achievement of set goals and objectives.
3. Quality. Apply quality systems, principles, concepts and utilize appropriate math, measurement and statistical tools and technology to improve processes, product quality, and to enhance productivity.
4. Safety. Incorporate safety awareness, principles and practices in every aspect of work and as a way of life, including machine safety, environmental safety, chemical safety, and personal/employee protection.
5. Automation. Apply knowledge of math, machines' principles, tools and materials to operate and monitor CNC machines, modify CNC code that ensures quality outcomes.
6. Blue Print Schematics. Interpret geometrical dimensioning and tolerancing (GD&T) concepts: symbols, instructions used in establishing form, locations, and orientation tolerances of parts' features to ensure that quality engineering parts are machined and assembled to achieve desired functionality.
7. Operation Principles. Apply operational principles, software, concepts, tools, equipment, and machines of Computer integrated manufacturing systems (CIMS), including: Programming Computer Integrated Manufacturing Systems to implement production scheduling, materials movement, parts production and quality control; setting up and operating machine and interface equipment in computer integrated environment to produce quality parts at low and competitive costs.