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| **Computer Engineering Technology**  **52.1201** | |
| **Objective of Technical Education-**   * Upon successful completion of this program, students will be prepared for an entry level position as a Computer Support Technician. * Students are offered the opportunity to acquire the technical knowledge and skills related to fundamental computer operation, supporting the design and development of software applications, managing data systems, analysis and forecasting business data. * Students who work in Management Information System careers assist in keeping business computers, information systems and personal computer functioning. * Students will receive instruction in a variety of computer programming languages including writing, testing and debugging codes and writing related system user documentation. * Students will demonstrate an understanding of core computer concepts to include the internet and the basic functions of business desktop applications, including analyzing common hardware, software and network processes. | |
| PROGRAM SAFETY REQUIREMENTS | * STUDENTS LEARN REQUIRED SAFETY PRACTICES AND PROCEDURES. * STUDENTS ARE REQUIRED TO ADHERE TO CCTI’S COMPUTER ACCEPTABLE USE POLICY. |
| APTITUDES, ABILITIES/SKILLS | * WORK INDEPENDENTLY AND WITH TEAM MEMBERS * ABILITY TO REMAIN FOCUSED AND ON TASK * TIME MANAGEMENT SKILLS * SELF-MOTIVATION * ORGANIZATION SKILLS * LISTENING COMPREHENSION- ABILITY TO LISTEN TO OTHERS WITH INTERRUPTING * ORAL COMPREHENSION * SELF-CONTROL * NEAR VISION * CRITICAL THINKING SKILLS * MAKING DECISIONS * PROBLEM SOLVING SKILLS * ANALYZE DATA TO MAKE INFORMED OPERATIONAL DECISIONS |
| ACADEMIC SKILLS  READING  MATH  SCIENCE | * TEXT BOOK READING LEVEL GRADE 8+ * TEACHER-MADE PRESENTATIONS, ONLINE MATERIALS AND RESOURCES ARE USED * READING COMPREHENSION SKILLS * CALCULATE & APPLY MATH SKILLS SUCH AS MULTIPLICATION, PERCENTS, FRACTIONS, PRE-ALGEBRA * UNDERSTANDING OF SPREAD SHEETS * DEMONSTRATE PROBLEM SOLVING SKILLS * KNOWLEDGE OF CONTENT AND STRUCTURE OF ENGLISH LANGUAGE, INCLUDING SPELLING OF WORDS, RULES OF COMPOSITION AND GRAMMAR |
| PHYSICAL REQUIREMENTS | * ABLE TO SIT FOR LONG PERIODS OF TIME * ABLE TO LOOK AT THE COMPUTER SCREEN FOR LONG PERIODS OF TIME |
| SOFT SKILLS | * PRESENTATION SKILLS * LISTEN TO OTHERS WITHOUT INTERRUPTION * COMMUNICATE WITH PEERS, SUPERVISOR AND CUSTOMERS VIA PHONE AND IN-PERSON * COOPERATE WITH OTHERS * ABILITY TO WORK WITH OTHERS TO SHARE IDEAS AND SOLVE PROBLEMS TOGETHER * USE TIME WISELY * CONDUCT ONESELF MATURELY * ACCEPT DIRECTIVES |
| CLASSROOM ASSIGNMENTS,  ASSESSMENTS & TASKS | * CLASSWORK/HOMEWORK * TEACHER MADE TESTS & QUIZZES * PROFESSIONAL DEVELOPMENT MODULES * CURRENT EVENTS * NOCTI (END OF 12TH GRADE) * BENCHMARK ASSESSMENTS (PRE-NOCTI) * TASK LIST- PROGRAM OF STUDY * CLASS DISCUSSION AND PARTICPATION * PROFESSIONALISM |
| INDUSTRY CERTIFICATIONS | * OSHA Certification * NOCTI * IC3 GS6 Digital Literacy |
| PROGRAM UNIFORM/COSTS/MATERIALS | * CASUAL PROFESSIONAL ATTIRE |
| ARTICULATION AGREEMENTS | * LCCC |
| COOPERATIVE OPPORTUNITIES | * BASED ON JOB AVAILABILITY, TEACHER RECOMMENDATION, GRADES OF 77% AND HIGHER, GOOD ATTENDANCE, GOOD BEHAVIOR, DRIVER’S LICENSE AND OWN TRANSPORTATION * PARTNERS (EX’S) - |
| EMPLOYMENT OUTLOOK & PROJECTED SALARY | * ASSOCIATE’S OR BACHELOR’S DEGREE NORMALLY REQUIRED. * MEDIAN WAGE IN PA- $134,460 ANNUALLY |
| How to find out more? | * https://www.onetonline.org * [www.carboncti.org](http://www.carboncti.org) |