

## Essential Skills Engineering Technology

#### (Computer Aided Drafting)

The essential skill sheets are lists of the most commonly encountered qualities and skills typically necessary to be successful in a particular program or area of interest. The information contained in an essential skills sheet is not all-inclusive and is intended to be used as a guide only. Individual programs may have specific requirements or technical standards that must be met.

### Physical

Arm-hand coordination Arm-hand steadiness Detect difference in visual details Draw, sketch or form common shapes, forms and figures Hear activities/commands given within 20 feet Feel differences in surface characteristics Maintain balance (sit, stand, squat) Move within confined spaces Pinch, grasp, squeeze, and manipulate objects Push, pull, lift and/or support a minimum of 25 pounds Reach above shoulders Reach below waist Sit for long periods of time Sustain repetitive movements See objects 20 inches to more than 20 feet away Write with pen/pencil Distinguish colors and changes in its variation

Key/Type Feel vibrations Hand-eye coordination Hear faint, normal, and distant sounds Twist

### Cognitive

Accurately recall information Anticipate when something is likely to go wrong Apply knowledge from one situation to another Calculate/measure areas, perimeters, and volumes Calculate using calculator Calculate using computer Calculate using pen/paper Categorize information Combine knowledge and skills Follow and retain visual model or demonstrated instructions Follow and retain written instructions (technical/multi-step) Follow written information, charts, drawings Organize tasks to meet deadlines (hourly, daily, long-term) Differentiate between objects of similar shape/color Perform multiple responsibilities concurrently Evaluate the complexity of jobs Focus attention on task Follow and retain oral instruction (multi-step)

Follow directions (written/verbal) Identify symbols and icons Interpret information Detail oriented Estimate times Problem solve Process information Use a computer (email/internet/other) Work accurately



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### Communication

Communicate in a professional/tactful manner Communicate using a telephone Deliver presentations to wide range of audiences Discuss ongoing projects/work Explain/express ideas and opinions Give directions Read, write, speak, and comprehend English effectively Record written information Present supporting facts/recommendations

#### Behavioral

Accept cognitive criticism Adapt to changing situations Complete responsibilities in a timely manner Cooperate with others individually or in a team setting Dependability Exercise accountability Exercise independent judgement Exhibit social skills appropriate to professional interactions Maintain professional appearance Perform accurately and quickly even under stressful conditions Self-motivation and initiative Work carefully while maintaining efficiency and organization Work independently with limited supervision Exhibit social skills appropriate to professional interactions Maintain professional appearance



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### Other

See program or desired area of employment for specifics - Prerequisites