

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	Bend
Arm-hand steadiness	Reach above shoulders
Pinch, grasp, squeeze, and manipulate objects	Reach below waist
Hand-eye coordination	Squat for long periods
Depth perception	Stoop
Detect difference in visual details	Climb
Detect odors (faint, strong, noxious)	
Draw, sketch or form common shapes, forms and figures	
Feel differences in surface characteristics	
Work in extreme/hazardous conditions (darkness, heat, cold, dampness, very small spaces)	
Lift a minimum of 50 pounds (unassisted)	
Maintain balance (sit, stand, squat)	
Maintain physical endurance	
Maintain safety of self and others	
Maneuver under and around objects	
Move within confined spaces	
Navigate different terrains	

Cognitive

Accurately recall information	Focus attention on task
Follow and retain diagram instructions (simple to more complex)	Adaptability
Anticipate when something is likely to go wrong	Calculate areas
Apply knowledge from one situation to another	Calculate decimals
Follow and retain oral instruction (multi-step)	Calculate fractions
Follow and retain visual model or demonstrated instructions	Identify appropriate solutions
Follow and retain written instructions (technical/multi-step)	Combine knowledge and skills
Calculate using calculator	Identify symbols and icons
Calculate using pen/paper	Interpret information
Identify behaviors that negatively impact safety	Decide course of action
Complete forms accurately	Locate data in tables
Convert between fractions and decimals or percentages	Measure angles
Interpret scale drawings (blueprints, maps, schematics)	Measure distance or dimension
Differentiate between objects of similar shape	Measurement conversions
Differentiate between objects of similar size	Problem solve
Differentiate between objects of similar spatial relationship	Evaluate information
Take measurements using specialized equipment	Use a computer (other)
Evaluate the complexity of jobs	Use reference/technical materials

Communication

Collaborate with others
Communicate in a professional/tactful manner
Communicate using a telephone
Discuss ongoing projects/work
Explain/express ideas and opinions
Present supporting facts/recommendations
Read, write, speak, and comprehend English effectively
Record written information

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 good judgement
Exercise independent judgement
Self-motivation and initiative
Work carefully while maintaining efficiency and organization
Work independently with limited supervision

Essential Skills Welding Technology

(Welding Technology/Welding Technician/Welding for Ag Educators)

Other

See program or desired area of employment for specifics - Prerequisites

See program or desired area of employment for specifics - Certifications/Licenses