State Fair
Community College

Essential Qualifications the Industrial Technology Programs

The following essential qualifications address many of the physical, cognitive, attitudinal and behavioral abilities essential to these programs. Students should meet these essential qualifications in order to be successful in a program as well as future career opportunities. Students with documented disabilities who wish to request reasonable accommodations under the American with Disabilities Act must follow the college's procedure for requesting accommodations. The college reserves the right to reject requests for accommodations that would fundamentally alter the nature of an educational program, lower the academic standards, cause an undue hardship on the college, or endanger the health or safety of a student with a disability, other students, clinic patients, or any other member of the college community.

Students are required to review the standards and to sign a form certifying that they have read, understand, and are able to meet the standards, with *or* without reasonable accommodations.

The essential skills and abilities for these programs are categorized in the following essential qualifications:

Sensory/Observational Skills

With or without reasonable accommodations, a candidate for this program must have sufficient sensory skills to observe machinery operations in noisy environments to ascertain equipment conditions, while other distractions, such as production, fork lift traffic, personnel movement, etc. exist. These items could be both at a distance or in close proximity and under a variety of conditions, influenced by location, weather and other variables.

Cognitive

With or without reasonable accommodations, a candidate for this program must be able to quickly read, comprehend and write a variety of written materials including technical manuals, regulatory requirements and codes, and blueprints. Candidates must be able to recall, evaluate, and apply information and engage in critical thinking. Candidates must also be able to accurately complete math functions such as addition, subtraction, division, multiplication, fractions, ratios, and basic algebraic equations. Candidates should be able to reason deductively and inductively; identify objects, actions, and events; make decisions and solve problems; and document information.

Communication

With or without reasonable accommodations, a candidate for this program must be able to express information and ideas coherently, and listen to and understand information and ideas. Candidates must be capable of effectively and professionally communicating and interacting with co-workers and supervisors in both oral and written forms. Candidates must be able to read and write reports and other information and ideas.

Motor Skills

With or without reasonable accommodations, a candidate for this program must have sufficient motor skills to execute movements required to complete the various tasks related to employment in the industrial technology fields, including but not limited to walking, climbing and avoiding various obstacles, and physical movement of parts, tools, equipment and other items necessary to complete maintenance troubleshooting and repair. Students should have the ability to reach items overhead, stand for 8-12 hours, and lift heavy objects. The student may need to function in response to an emergency situation.

Environmental Tolerance

With or without reasonable accommodations, a candidate for this program must have sufficient environmental tolerance to work in a variety of conditions that could include extreme weather, loud noises, chemicals and toxins, dust, heat, and fumes, moving objects and vehicles, slippery or uneven surfaces, variations in lighting, and activities that may cause serious injury and death.