Industrial Maintenance/Millwright Certificate: Program Outcomes

Upon successful completion of the program, graduates will be prepared to:

1. Demonstrate mastery of welding skills by passing the AWS D1.1 industry certification in SMAW and FCAW.
2. Demonstrate an understanding of the basic tools and processes used by millwrights in industry.
3. Identify the appropriate tools needed for a job or situation and operate those tools in a safe manner.
4. Install, maintain, and repair the major components in mechanical power transmission.
5. Identify and correctly install, maintain, or remove common fasteners.
6. Install, maintain and repair pumps and compressors common in industry.
7. Describe how maintenance systems and operations function and what predictive, preventive, and repair maintenance are.
8. Evaluate work quality and generate recommendations for continuous improvement.
9. Apply basic math and measurement.
10. Communicate effectively, both verbally and in writing.
11. Discuss the job duties and employability skills expected of maintenance millwrights in industry.
12. Be successfully employed in the field.
13. Demonstrate technical understanding and skills to the satisfaction of their employers.
14. Demonstrate professional and ethical work behavior.
15. Demonstrate a basic understanding of OSHA guidelines and expectations.
16. Discuss the basic processes and behaviors needed to identify, abate, prevent, and avoid job-related hazards.
17. Respond to common cardiac, breathing, and first-aid emergencies.
19. Deploy the basic skills to lift heavy loads and equipment.