

Millwright (Technical Diploma)

This program is designed to prepare students to work efficiently as a Millwright. Since its humble beginnings in the construction of wood mills, the Millwright trade has expanded to include work in metal and machinery of ever-increasing technology and precision. Millwrights install, align, and troubleshoot machinery in factories, power plants (particularly the precision machinery required in nuclear power plants), and other industrial sites. They install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, and adjust the moving and stationary parts of machines to certain specifications. Millwrights must be extremely skilled at mathematics and interpreting blueprints and specifications to set machines at perfect measurements, sometimes working with clearances no bigger than thousandths of an inch. This program covers five levels of training based on curriculum developed by the National Center for Construction Education and Research (NCCER). NCCER's curriculum covers topics such as Millwright Hand Tools and Fabricating Shims. Students who successfully complete the program will be nationally certified by NCCER.

A career and technical certificate (CTC) may be earned in the first semester and a certificate of technical studies (CTS) may be earned in the second semester; a technical diploma may be earned upon completion of all technical courses. Students also have the option to complete the Technical Studies Associate of Applied Science with a concentration in Millwright by completing General Education courses in addition to the technical courses.

To receive any credential in this program, the student must:

- Complete the program of study below.
- Earn a "C" or better in all courses that are to be used towards the degree.

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

1. Demonstrate the ability to install, repair, and maintain industrial machinery and equipment.
2. Perform preventive and predictive maintenance tasks identified through examination of industrial machinery and equipment.
3. Safely operate rigging and hoisting equipment.
4. Utilize various hand and precision measuring tools to perform layouts.

Program of Study

First Semester		Credit Hours
CORE 1003	Introduction to Craft Skills	3
MILL 1119	Millwright Level 1	9
MILL 1216	Millwright Level 2 Part 1	6
Semester Total:		18
Second Semester		Credit Hours
MILL 1226	Millwright Level 2 Part 2	6
MILL 1316	Millwright Level 3 Part 1	6
MILL 1326	Millwright Level 3 Part 2	6
Semester Total:		18
Third Semester		Credit Hours
MILL 1419	Millwright Level 4	9
Semester Total:		9
Total Program Credit Hours:		45

Millwright Credentials Available:

		Credit Hours
CORE 1003	Introduction to Craft Skills	3
MILL 1119	Millwright Level 1	9
CTC: Millwright Level 1		12
		Credit Hours
CORE 1003	Introduction to Craft Skills	3
MILL 1119	Millwright Level 1	9
MILL 1216	Millwright Level 2 Part 1	6
MILL 1226	Millwright Level 2 Part 2	6
CTS: Millwright Level 2 (Level 1 and Level 2 courses)		24
		Credit Hours
CORE 1003	Introduction to Craft Skills	3
MILL 1119	Millwright Level 1	9
MILL 1216	Millwright Level 2 Part 1	6
MILL 1226	Millwright Level 2 Part 2	6
MILL 1316	Millwright Level 3 Part 1	6
MILL 1326	Millwright Level 3 Part 2	6
MILL 1419	Millwright Level 4	9
TD: Millwright Level 4 (Level 1, Level 2, Level 3, and Level 4 courses)		45

Students interested in pursuing the Technical Studies Associate of Applied Science degree with a concentration in Millwright should contact the Technical Education Division at 225-216-8367 for more information.