

## ***NCCER Pipefitting Level 4 (Technical Diploma)***

This program is designed to prepare students to work as a Pipefitter. There are some who may consider pipefitting synonymous with plumbing, but these are really two very distinct trades. Plumbers install and repair the water, waste disposal, drainage and gas systems in homes and commercial and industrial buildings. Pipefitters, on the other hand, install and repair both high- and low-pressure pipe systems used in manufacturing, in the generation of electricity, and in the heating and cooling of buildings. This program covers four levels of training based on curriculum developed by the National Center for Construction Education and Research (NCCER). NCCER offers a four-level Pipefitting curriculum that covers topics such as Threaded Pipe Fabrication, Excavations, and Steam Traps. 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 Pipefitting by completing General Education courses in addition to the technical courses.

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

- Complete the coursework listed below.
- Earn a “C” or better in all courses that are to be used toward the credential.

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

1. Demonstrate proper use of pipefitting tools.
2. Fabricate piping systems through welding and machining processes.
3. Employ safe rigging practices and hazard identification to assemble a piping system.
4. Perform maintenance on piping systems and components.

### **Program of Study**

<b>First Semester</b>		<b>Credit Hours</b>
CORE 1003	Introduction to Craft Skills	3
PIPE 1119	Pipefitting Level 1	9
PIPE 1216	Pipefitting Level 2 Part 1	6
<b>Semester Total:</b>		<b>18</b>
<b>Second Semester</b>		<b>Credit Hours</b>
PIPE 1226	Pipefitting Level 2 Part 2	6
PIPE 1316	Pipefitting Level 3 Part 1	6
PIPE 1326	Pipefitting Level 3 Part 2	6
<b>Semester Total:</b>		<b>18</b>
<b>Third Semester</b>		<b>Credit Hours</b>
PIPE 1419	Pipefitting Level 4	9
<b>Semester Total:</b>		<b>9</b>
<b>Total Program Credit Hours:</b>		<b>45</b>

**Pipefitting Credentials Available:**

		<b>Credit Hours</b>
CORE 1003	Introduction to Craft Skills	<b>3</b>
PIPE 1119	Pipefitting Level 1	<b>9</b>
<b>CTC: NCCER Pipefitting Level 1</b>		<b>12</b>
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		<b>Credit Hours</b>
CORE 1003	Introduction to Craft Skills	<b>3</b>
PIPE 1119	Pipefitting Level 1	<b>9</b>
PIPE 1216	Pipefitting Level 2 Part 1	<b>6</b>
PIPE 1226	Pipefitting Level 2 Part 2	<b>6</b>
<b>CTS: NCCER Pipefitting Level 2 (Level 1 and Level 2 courses)</b>		<b>24</b>
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		<b>Credit Hours</b>
CORE 1003	Introduction to Craft Skills	<b>3</b>
PIPE 1119	Pipefitting Level 1	<b>9</b>
PIPE 1216	Pipefitting Level 2 Part 1	<b>6</b>
PIPE 1226	Pipefitting Level 2 Part 2	<b>6</b>
PIPE 1316	Pipefitting Level 3 Part 1	<b>6</b>
PIPE 1326	Pipefitting Level 3 Part 2	<b>6</b>
PIPE 1419	Pipefitting Level 4	<b>9</b>
<b>TD: NCCER Pipefitting Level 4 (Level 1, Level 2, Level 3, and Level 4 courses)</b>		<b>45</b>

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