



# MATRIX APPRENTICESHIP

## **Carpenter Level 1**

(Petro-Chemical Hazardous Area Worker)

### **Course description**

This course is designed to provide the Carpenter student with the initial knowledge and skills required for his or her beginning levels of apprenticeship. Major topics covered in this course include new hire orientation, basic safety, hand and power tools and measuring. The student will also be introduced to equipment training, building materials, construction drawings and basic layout.

## **Pipefitter Level 1**

(Petro-Chemical Hazardous Area Worker)

### **Course description**

This course is designed to provide the Pipefitter student with the initial knowledge and skills required for his or her beginning levels of apprenticeship. Major topics covered in this course include new hire orientation, basic safety, pipe systems and hand and power tools. The student will also be introduced to equipment training, oxy fuel cutting and drawings.

## **Boilermaker Level 1**

(Petro-Chemical Hazardous Area Worker)

### **Course description**

This course is designed to provide the Boilermaker student with the initial knowledge and skills required for his or her beginning levels of apprenticeship. Major topics covered in this course include new hire orientation, basic safety and tools of the trade. The student will also be introduced to equipment training, welding safety, drawings and to identify/install valves.

## **Industrial Maintenance Mechanic Level 1**

(Petro-Chemical Hazardous Area Worker)

### **Course description**

This course is designed to provide the Industrial Maintenance Mechanic student with the initial knowledge and skills required for his or her beginning levels of apprenticeship. Major topics covered in this course include Matrix New Hire Orientation, basic safety, tools of the trade and craft related mathematics. The student will also be introduced to equipment training, oxyfuel cutting, drawings and to identify/install valves.



## Course objective

The objective of these courses are to enable the student to learn basic skills necessary to further his/her career.

## Target audience

This course is designed for entry level or new apprentices.

## Length of course

This course is designed to be offered during a minimum of 147.5 hours of classroom and some shop instruction. The course is divided into three sessions, session 1 is 10 weeks, session 2 is 8 weeks and session 3 is 7 weeks. Course sessions will be conducted during evenings (Tuesdays and Thursdays) in blocks of 3 hours or may be conducted during one or more all day sessions on Saturdays. There are several job sheets focusing on the performance of basic skills. The amount of time spent developing these skills may lengthen the time required for this course.

## Course materials

- **Matrix New Hire Orientation:** Matrix online course
- **Boilermaker Trainee Guide:** NCCER
- **Ironworker Trainee Guide:** NCCER
- **Industrial Maintenance Mechanic Trainee Guide:** NCCER
- **Welding Trainee Guide:** NCCER
- **Core Curriculum:** NCCER
- **Assignment Sheets:** Student workbook
- **Equipment Training:** Matrix
- **Job Sheets:** Student workbook
- **PowerPoints:** NCCER
- **Tests:** Instructors Guide



# Apprentice wage schedule

Period	OJL hrs needed	RI hrs needed	Upgrade to	Percentage
1st 40%	1000	72	2nd	45%
2nd 45%	2000	144	3rd	50%
3rd 50%	3000	216	4th	55%
4th 55%	4000	288	5th	60%
5th 60%	5000	360	6th	70%
6th 70%	6000	432	7th	80%
7th 80%	7000	504	8th	90%
8th 90%	8000	576	Journeyman	100%

## Term of apprenticeship

The term for Pipefitters and Carpenters will be 4 years each with an OJL (On the Job Learning) attainment of 8000 hours supplemented by the required 576 hours of RI (Related Instruction) as stated in the Related Instruction Outline.

The term for Boilermaker will be 3 years each with an OJL (On the Job Learning) attainment of 6000 hours supplemented by the required 432 hours of RI (Related Instruction) as stated in the Related Instruction Outline.

The term for Industrial Maintenance Mechanic will be 4 years each with an OJL (On the Job Learning) attainment of 8000 hours supplemented by the required 581 hours of RI (Related Instruction) as stated in the Related Instruction Outline.





**For more information**

**866 367 6879**

**matrixservice.com**

# **SAFETY MATTERS**

The importance of safety will be addressed and reinforced in all hands-on activities in the classroom, in the shop and on the job site.