Course Name	**Fluid Mechanics**
Credit Hours	1 Hour
Instructor(s)	Jerry Durham
Fee	$19.00

Course Description

This course explains how fluids behave, especially under pressure and in motion. This lesson is divided into two major parts. The first concerns fluids at rest and describes the properties fluids have when they are standing still. The second half treats the subject of fluids in motion.

Learning Objectives

After completing this course, the licensee should be able to:

- Define a fluid.
- Define pressure and identify common units of pressure measurement.
- State Pascal's Law and give an example of its application.
- Explain the difference between gauge pressure and absolute pressure.
- Explain the Bernoulli Effect and give three examples of how it is utilized in industry.
- Explain how a siphon works.

Equipment Requirements

You must have an active, working internet connection to access this course online, as well as a platform to access the internet, such as a computer, tablet, or phone. All popular web browsers are supported, including Google Chrome, Mozilla Firefox, Safari, and Opera. No specialized software, speaker, microphone, or web camera is required.

Schedule and Location

This course is available online at any time at www.AYPOTech.com. Upon enrolling in the course, students will have access for 365 days or until the agency-issued course expiration date, whichever comes first. After the access expiration date, the student may re-activate their course if the course approval has not expired. If they do not re-activate, the course will be removed from the student's account and any progress in the course will be lost. Before the access expiration date, the student may sign in and out of the course as many times as needed to complete the course.

Student Support

Both general and technical support is available to the student before, during, and after taking the course online. Students have access to general customer support via phone, chat, and email. Students have access to the course instructor via email. All questions, concerns, and comments received will be responded to within one business day.

Participation/Interactivity Verification

Timed Logs - Per our company's record retention policy, each student's every log-in, log-out, and lesson/assessment completion time is tracked and retained as part of the student record.

Review Questions - After each section of text, students must answer a review question. Students cannot progress in the course until the question between sections has been answered correctly.

Global Timer - Students will not get credit until they spend a minimum of 60 active minutes total in the course.

Identity Verification

Unique Username/Password - Each student that wants to complete a training course with us must create an account by registering a unique personal email address and password. The student must enter this unique identifier every time they take a break from the course.

Assessment Details

Review Questions - The student must successfully answer all review questions between sections to get credit for the course. If their first response is incorrect, students will have to try again until they choose the correct answer.

Fluid Mechanics Timed Syllabus

Section	Title	Questions	Minutes
1	Definition of a Fluid	**1**	**4**
2	Fluids Distribute Forces	**1**	**4**
3	Definition of Pressure	**1**	**4**
4	Measuring Pressure	**1**	**4**
5	Sources of Fluid Pressure	**3**	**12**
6	Gauge Verses Absolute Pressure	**1**	**4**
7	Liquid Seeks Its Own Level	**1**	**6**
8	Velocity Head Verses Static Pressure Head	**1**	**4**
9	The Bernoulli Effect and Venturi Applications	**1**	**6**
10	Friction Head	**1**	**4**
11	The Siphon	**1**	**8**
	Totals:	**13**	**60**
	Student Time Minimum Required:		**60**