



COMM 6009: WRITING FUNDAMENTALS I - SENTENCES

Learning Outcome

When you complete this module you will be able to:

Identify correct and effective sentence structures and revise poorly worded sentences for clarity, conciseness, and correctness.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Identify and correct sentence fragments.
2. Identify and correct run-on sentences.
3. Identify and correct errors in pronoun and subject verb agreement.
4. Use active and passive verbs correctly.
5. Edit poorly worded sentence for conciseness and clarity.
6. Solve common word usage problems.
7. Punctuate sentences correctly.

FMEC 6002: Pressure

Learning Outcome

When you complete this module you will be able to

Describe the basic principles of pressure and use these principles to solve practical problems.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Define the term "pressure" and the different types of pressure measurements.
2. Discuss units of pressure measurement and absolute and gauge pressures.
3. Describe pressure and elevation relationships and solve common problems with fluid columns.

INST 6037: Temperature Measurement Devices

Learning Outcome

When you complete this module you will be able to

Discuss the basic principle of operation and the application of the various common temperature measuring devices.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe the operation and application of bimetallic thermometers.
2. Describe the operation, classes, and application of filled thermal element systems.
3. Describe the operation and application of thermocouples.
4. Describe the operation and application of resistance thermometers.
5. Describe the operation and application of radiation pyrometers.



MACH 6001: Introduction to Ladders, Scaffolding and Rigging

Learning Outcome

When you complete this module you will be able to

Discuss the safe use of ladders, scaffolding and rigging.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe ladder types, their correct use and their safety regulations.
2. Describe workplace health and safety regulations and precautions for scaffolding.
3. Describe workplace health and safety regulations and precautions for rigging.

MACH 6002: Workplace and Tool Safety

Learning Outcome

When you complete this module you will be able to

Demonstrate an awareness of personal safety hazards, precautions, and safety related equipment in the workplace.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe personal safety related issues that a worker should be aware of before entering a work site.
2. Describe tools or specific equipment designed for use at the workplace, including explosive environments.

MACH 6003: Wrenches, Screwdrivers, Pliers, and Clamps

Learning Outcome

When you complete this module you will be able to

Recognize and explain the use of some common shop tools, equipment, and their accessories.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. The student will become familiar with the types, uses, maintenance, and safety considerations in the use of certain common hand tools.
2. The student will understand why choosing the right tool is essential to completing the job efficiently.
3. Maintaining tools and using them properly and safely will allow the student to complete many tasks with confidence.



MATH 6004: Basic Arithmetic Operations

Learning Outcome

When you complete this module you will be able to:

Perform basic arithmetic operations without the use of a calculator.

Learning Objectives

Here is what you will be able to do when you complete each objective::

1. Add and subtract integers.
2. Multiply and divide whole and decimal numbers.
3. Evaluate equations involving combinations of addition, subtraction, multiplication and division, and powers in the proper sequence.

MATH 6007: Fractions, Decimals and Percentages

Learning Outcome

When you complete this module you will be able to:

Perform basic arithmetic operations involving fractions, decimals and percentages.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Identify proper and improper fractions and mixed numbers.
2. Add, subtract and multiply fractions and reduce them to lowest terms.
3. Convert fractions to decimal numbers and decimal numbers to fractions.
4. Evaluate percentage problems.

PHYS 6001: SI Units

Learning Outcome

When you complete this module you will be able to:

Perform simple calculations involving SI units.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. List basic SI units and their symbols.
2. Identify and list symbols for unit prefixes.
3. List derived SI units and their symbols.
4. Convert Imperial units to SI units, and vice versa.
5. Perform unit analyses in simple problems.

PIPE 6012: Well Equipment - Casing, Tubing and Wellheads

Learning Outcome

When you complete this module you will be able to



Describe casing, tubing, and wellhead components; their classifications and utilization.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Identify casing systems and classifications.
2. Identify tubing systems and classifications.
3. Describe wellhead classifications and pressure ratings.
4. Identify well components.
5. Describe casing and tubing inspection systems, and re-use classifications.

PTDR 6001: Drilling Methods and Equipment

Learning Outcome

When you complete this module you will be able to

Discuss drilling methods, identify the equipment components for each method, and possess a basic knowledge of drilling safety and techniques.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe the procedures to follow prior to drilling a well.
2. Describe the tools and components used in rotary drilling.
3. Describe the tools and components used in directional and horizontal drilling.
4. Explain special drilling procedures.
5. Describe the safety measures to be followed, and discuss the techniques used in properly drilling a well.

PTDR 6003: Glossary of Terms

Learning Outcome

When you complete this module, you will be able to...

Understand common terminology.

PTPR 6028: Production Testing

Learning Outcome

When you complete this module you will be able to

Explain why production testing is required and how to carry it out.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Readily identify production testing equipment.
2. Assist with the safe rig in and rig out of production equipment.
3. Explain the legal requirements for production testing as a requirement by the EUB and product allocation by the owners.
4. Relate to the liquid to gas ratio (LGR) changes in producing fields as the reservoir reserves decline.
5. Describe the necessary changes in inhibitor rates as liquid, gas, and water ratios change.



PTPR 6051: Service Rigs and Other Services

Rationale

Why is it important for you to learn this material?

To have a basic understanding of the drilling industry, it is necessary to have knowledge of other services that are part of completing and working over wells found in the oilfield.

Learning Outcome

When you complete this module you will be able to

Identify and understand the functions of other services on site.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe what services are commonly found in conjunction with well test practice.

SAFE 6004: Fire Safety

Rationale

Why is it important for you to learn this material?

The personal and economic costs of fire are enormous. It is important to know how to prevent or reduce the potential for fires and also to be able to effectively deal with a fire situation should one occur.

Learning Outcome

When you complete this module, you will be able to...

Discuss acceptable methods of extinguishing the various classifications of fire and describe fire extinguisher and detection equipment.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Explain the different fire classifications and describe the best methods to extinguish each class.
2. Describe the common designs and use of portable fire extinguishers.
3. Explain the application and operation of special extinguishing systems used in buildings.
4. Explain the various types of fire and smoke detectors.

SAFE 6009: Personal Protective Equipment

Rationale

Why is it important for you to learn this material?

As a last option to hazard control, it is important that the student recognizes and understands the use and limitations of basic personal protective equipment commonly required and used on the worksite.

Learning Outcome

When you complete this module, you will be able to...

Describe the use, selection, and care of personal protective equipment.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Describe the personal protective equipment available for body and head protection.
2. Describe the safety features required for safety belts and harnesses.



3. Describe and identify the level of protection in various kinds of respiratory protective equipment.

SAFE 6015: Portable Fire Extinguishers

Learning Outcome

When you complete this module you will be able to:

Describe the types of portable fire extinguishers, and their application for each fire classification.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Identify suitable extinguishers for each class of fire.
2. Describe the characteristics of the different types of extinguishers.

SAFE 6024: Gas Hazards

Rationale

Why is it important for you to learn this material?

Many gases are used in the workplace. When gases are properly contained and controlled, they are not hazardous to individuals, but when they are improperly handled or released in an uncontrolled way they can be extremely dangerous. It is important to understand and appreciate the various effects of gases on human physiology and to learn methods for their safe handling and testing.

Learning Outcome

When you complete this module, you will be able to...

Explain the physiological affects that gases have on individuals and how to manage those hazards.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Describe the physiological affects of gases on individuals.
2. Describe the multiple hazards associated with gases.
3. Select the appropriate gas detection equipment.
4. Develop procedures for working in environments that are toxic or have the potential to be toxic.

SAFE 6045: Introduction to Fall Protection

Learning Outcome

When you complete this module, you will be able to...

Describe the equipment available for fall protection and make recommendations that will assist in protecting workers against one of the major occupational dangers in the workplace.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Define the terms related to fall protection.
2. Describe the current legislation pertaining to fall protection.
3. Discuss the various fall protection systems.
4. Discuss the selection, care, and use of fall protection equipment.



SAFE 6048: Introduction to Back Care

Learning Outcome

When you complete this module, you will be able to...

Describe the role of back care and lifting strategies in the workplace.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Describe the purpose of back care and the basic principles of ergonomics.
2. List the benefits of using proper lifting strategies.
3. Recognize some common symptoms of back problems that may lead to disabilities if proper precautions are not taken.
4. Identify common risk factors for back injuries associated with manual load handling.

Note: This module is intended to provide you with an introduction to the principles of back care and ergonomics. It in no way is intended to replace occupational health and safety training provided by employers.

SAFE 6058: Introduction to Hearing Protection and Conservation

Learning Outcome

When you complete this module, you will be able to...

Describe the essential role of hearing protection and conservation in the workplace.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Discuss the Occupational Health and Safety Act regulations pertaining to hearing protection and conservation.
2. Explain how to detect and control hazardous noise levels.
3. Describe the types of hearing protection devices and selection criteria.
4. Discuss hearing conservation programs.