

## INTRODUCTION TO THE TRADE

### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Identify those personal qualities that are positively related to job success.
2. Explain the apprenticeship training process.
3. Explain the scaffolding trade, trade math, and the regulations and standards associated with the scaffolding trade.
4. Identify and explain stationary scaffolds.
5. Identify and explain mobile scaffolds.
6. Identify and explain suspended scaffolds.

### Note to the Instructor

Before teaching this module, you should review the details in this Instructor's Guide for Equipment and Materials, Testing, and the suggested Teaching Sequence. Be sure to allow ample time to prepare your own training plan or lesson plan, and to gather all required equipment and materials.

### Required Equipment and Materials

The following are required for instruction using this module.

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Safety equipment  
Appropriate Personal Protective Equipment

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination  
Site-specific manufacturer's handouts

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Classroom, and/or Demonstration, and/or Laboratory  
Summary

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to the scaffolding trade. It describes the duties of a scaffolder, identifies scaffold types, and defines terms associated with scaffolding.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following:

Core Curricula

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 5 hours or two sessions of training time is suggested to cover *Introduction to the Trade*. The training class session is a suggested 2½ hour time period, which includes at least one break. **You will need to adjust the time required for hands-on activities and testing based on your class size and resources.** All time periods for this module are suggested, and you will need to adapt the suggested lesson plan to meet your local conditions.

### Suggested Teaching Sequence — Two 2½-Hour Sessions

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Human Relations On The Job – Apprenticeship In Scaffold Building	1.0.0 – 3.5.0
2	Scaffolding Trade – Float Scaffolds Module Examination	4.0.0 - 7.6.0



### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Identify Occupational Safety and Health Act (OSHA) regulations that regulate the scaffolding industry.
2. Identify and explain the basic guidelines for planning, erecting, and using scaffolding.
3. Identify and explain personal protective and life-saving equipment.
4. Explain fall protection.
5. Identify and explain electrical hazards.

### Note to the Instructor

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### Required Equipment and Materials

The following are required for instruction using this module.

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate Personal Protective Equipment  
Body harness

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination  
Performance Profile Sheets

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to safety methods, equipment, regulations, and procedures used in scaffolding.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following module:

Core Curricula; Scaffolding, Module 31101

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 7½ hours or three sessions of training time is suggested to cover *Trade Safety*. The training class session is a suggested 2½ hour time period, which includes at least one break. **You will need to adjust the time required for hands-on activities and testing based on your class size and resources.** All time periods for this module are suggested, and you will need to adapt the suggested lesson plan to meet your local conditions.

### Suggested Teaching Sequence — Three 2½-Hour Sessions

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Introduction – Final Inspection And Tagging	1.0.0 – 3.2.10
2	Scaffold Use – Rescue After A Fall	3.3.0 – 5.3.0
3	Electrical Hazards – Hazards From Other Sources Module Examination and Performance Profile Testing	6.0.0 – 6.3.2

## TRANSPARENCY 1

### TASK MODULE 31102, TRADE SAFETY

# PERFORMANCE PROFILE TASKS

- 1. Inspect the worksite and identify potential safety hazards.**
- 2. Plan and sketch a scaffold for a specific application specified by the instructor.**
- 3. Examine and identify the soil type and proper mudsills at the worksite by type.**
- 4. Demonstrate the proper method for wearing and rigging a body harness.**



## TRADE TOOLS AND EQUIPMENT

### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Identify and describe the use of specific hand tools.
2. Identify and describe the use of specific power tools.
3. Explain the proper methods of storing, handling, and inspecting scaffolding.
4. Describe the proper use of fall protection equipment.
5. Identify and explain jacks and clamping devices.

### Note to the Instructor

Before teaching this module, you should review the details in this Instructor's Guide for Equipment and Materials, Testing, and the suggested Teaching Sequence. Be sure to allow ample time to prepare your own training plan or lesson plan, and to gather all required equipment and materials.

### Required Equipment and Materials

The following are required for instruction using this module:

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate Personal Protective Equipment  
Available hand tools  
Available power tools  
Available fall protection devices  
Available scaffolding equipment

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination  
Performance Profile Sheets

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to the safe use and applications of hand and power tools and equipment used in the scaffolding trade.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following modules:

Core Curricula; Scaffolding, Modules 31101 and 31102

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 7½ hours or three sessions of training time is suggested to cover *Trade Tools and Equipment*. The training class session is a suggested 2½ hour time period, which includes at least one break. **You will need to adjust the time required for hands-on activities and testing based on your class size and resources.** All time periods for this module are suggested, and you will need to adapt the suggested lesson plan to meet your local conditions.

### Suggested Teaching Sequence — Three 2½-Hour Sessions

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Introduction – Nail Claw	1.0.0 – 2.9.4
2	Lineman’s Pliers – General Guidelines For Using Jacks	2.10.0 – 4.4.0
3	Fall Prevention Devices – Repair Module Examination and Performance Profile Testing	5.0.0 – 6.5.0

## TRANSPARENCY 1

### TASK MODULE 31103, TRADE TOOLS AND EQUIPMENT

# PERFORMANCE PROFILE TASKS

- 1. Demonstrate the safe and effective use of available hand tools.**
- 2. Demonstrate the safe and effective use of available power tools.**
- 3. Demonstrate the proper rigging of available fall protection devices.**
- 4. Perform inspection of available scaffolding equipment.**

### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Calculate areas and perimeters of plane surfaces.
2. Calculate volumes of three-dimensional shapes.
3. Use tables to determine weights.
4. Identify types of loads on scaffold platforms.
5. Calculate loads on scaffold platforms.
6. Calculate wind loads on specified scaffold configurations.

### Note to the Instructor

Before teaching this module, you should review the details in this Instructor's Guide for Equipment and Materials, Testing, and the suggested Teaching Sequence. Be sure to allow ample time to prepare your own training plan or lesson plan, and to gather all required equipment and materials.

### Required Equipment and Materials

The following are required for instruction using this module:

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate Personal Protective Equipment

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to the trade math. It explains and gives examples of math calculations of scaffold loads including area loads, concentrated loads, live loads, cantilevered loads and wind loads.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following modules:

Core Curricula; Scaffolding, Modules 31101 through 31103

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 7½ hours or three sessions of training time is suggested to cover *Trade Math*. The training class session is a suggested 2½ hour time period, which includes at least one break. **You will need to adjust the time required for hands-on activities and testing based on your class size and resources.** All time periods for this module are suggested and you will need to adapt the suggested lesson plan to meet your local conditions.

### Suggested Teaching Sequence — Three 2½-Hour Sessions

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Introduction – Mathematical Tables	1.0.0 – 4.2.0
2	Types Of Loads – Calculating Cantilevered Loads	5.0.0 – 6.3.0
3	Wind Loads Module Examination	7.0.0





## STATIONARY SCAFFOLDS

### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Identify the safety considerations and components of tubular welded frame scaffolding.
2. Explain the proper methods for erecting tubular welded frame scaffolding.
3. Identify the safety considerations and components of tube and coupler scaffolding.
4. Explain the proper methods for erecting tube and coupler scaffolding.
5. Identify the safety considerations and components of system scaffolds.
6. Explain the proper methods for erecting system scaffolding.
7. Identify the safety considerations and components of ladder-type and outrigger scaffolding.
8. Explain the proper methods for erecting ladder-type and outrigger scaffolding.
9. Identify the safety considerations and components of pump-jack scaffolding.
10. Explain the proper methods for erecting pump-jack scaffolding.

### Note to the Instructor

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### Required Equipment and Materials

The following are required for instruction using this module.

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Safety equipment  
Available scaffolding equipment  
Appropriate Personal Protective Equipment

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination  
Performance Profile Sheets

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to equipment used with stationary scaffolds, and describes the procedures for erecting stationary scaffolds.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following modules:

Core Curricula; Scaffolding, Modules 31101 through 31104

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 27½ hours or eight sessions of training time are suggested to cover *Stationary Scaffolds*. You will need to adjust the time required for instruction, hands-on activities, and testing based on your class size and resources.

### Suggested Teaching Sequence

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Introduction – Ties	1.0.0 – 2.3.10
2	Erection – Assembly	2.4.0 – 2.4.3
3	Tube and Coupler Scaffold – Other Components	3.0.0 - 3.3.0
4	Erection – Scaffold Application Analysis	3.4.0 - 3.5.0
5	System Scaffolds – System Scaffold Arrangements	4.0.0 - 4.2.0
6	System Scaffold Erection	4.3.0
7	Ladder-Supported Scaffold – Erection	5.0.0 - 7.4.0
8	Module Examination and Performance Profile Testing	

## TRANSPARENCY 2

### TASK MODULE 31105, STATIONARY SCAFFOLDS

# PERFORMANCE PROFILE TASKS

- 1. Safely erect tubular welded frame scaffolding.**
- 2. Safely erect tube and coupler scaffolding.**
- 3. Safely erect system scaffolding.**
- 4. Safely erect ladder-type scaffolding.**
- 5. Safely erect outrigger scaffolding.**
- 6. Safely erect pump-jack scaffolding.**

## MOBILE SCAFFOLDS

### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Explain the proper methods for safely erecting and using rolling scaffolding.
2. Explain the proper methods for safely erecting and using scaffold wagons.
3. Explain the safe operation of scissors lifts.
4. Describe the applications and operation of boom lifts.

### Note to the Instructor

Before teaching this module, you should review the details in this Instructor's Guide for Equipment and Materials, Testing, and the suggested Teaching Sequence. Be sure to allow ample time to prepare your own training plan or lesson plan and to gather all required equipment and materials.

### Required Equipment and Materials

The following are required for instruction using this module:

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate Personal Protective Equipment  
Appropriate scaffolding equipment

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination  
Performance Profile Sheets

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to the different types of powered and manually propelled mobile scaffolds and describes safe erection and operation of mobile scaffolds.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following modules:

Core Curricula; Scaffolding, Modules 31101 through 31105

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 10 hours or four sessions of training time is suggested to cover *Mobile Scaffolds*. The training class session is a suggested 2½ hour time period, which includes at least 1 break. **You will need to adjust the time required for hands-on activities and testing based on your class size and resources.** All time periods for this module are suggested, and you will need to adapt the suggested lesson plan to meet your local conditions.

### Suggested Teaching Sequence — Four 2½-Hour Sessions

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Introduction – Assembly	1.0.0 – 2.4.2
2	Scaffold Wagons – Operation	3.0.0 – 3.6.0
3	Scissors Lifts – Maneuvering	4.0.0 – 4.4.2
4	Boom Lifts – Operation Module Examination and Performance Profile Testing	5.0.0 – 5.3.0

## TRANSPARENCY 2

### TASK MODULE 31106, MOBILE SCAFFOLDS

# PERFORMANCE PROFILE TASKS

- 1. Erect and use rolling scaffolds.**
- 2. Set up and operate scaffold wagons.**
- 3. Operate scissors lifts.**
- 4. Set up and operate boom lifts.**



## SUSPENSION SCAFFOLDS

### OBJECTIVES

Upon completion of this module, the trainee will be able to:

1. Identify the safety considerations and components of suspension scaffolds.
2. Explain the proper methods for rigging suspension scaffolds.
3. Identify the safety considerations and components of boatswain's chairs, work cages, and beam suspended scaffolds.
4. Explain the proper methods for rigging boatswain's chairs, work cages, and beam suspended scaffolds.

### Note to the Instructor

Before teaching this module, you should review the details in this Instructor's Guide for Equipment and Materials, Testing, and the suggested Teaching Sequence. Be sure to allow ample time to prepare your own training plan or lesson plan and to gather all required equipment and materials.

### Required Equipment and Materials

The following are required for instruction using this module.

#### Equipment

Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate Personal Protective Equipment  
Appropriate scaffolding equipment

#### Materials

Trainee Task Module  
Transparencies  
Markers/chalk  
Module Examination  
Performance Profile Sheets

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## MODULE OVERVIEW

This module introduces the scaffolding trainee to the types of equipment used with suspension scaffolds, and describes the rigging of suspension scaffolds.

### Prerequisites

Please see the Course Map. Prior to training with this module, it is recommended that the trainee shall have successfully completed the following modules:

Core Curricula; Scaffolding, Modules 31101 through 31106

### Safety Considerations

Ensure that the trainees are equipped with Appropriate Personal Protective Equipment.

### Teaching Time for This Module

Approximately 7½ hours or three sessions of training time are suggested to cover *Suspension Scaffolds*. The training class session is a suggested 2½ hour time period, which includes at least one break. **You will need to adjust the time required for hands-on activities and testing based on your class size and resources.** All time periods for this module are suggested, and you will need to adapt the suggested lesson plan to meet your local conditions.

### Suggested Teaching Sequence — Three 2½-Hour Sessions

Adjust your class times based on class size and resources.

Session	Topic	Trainee Module Section(s)
1	Introduction – Suspended Scaffold Components	1.0.0 – 3.1.0
2	Rigging Suspended Scaffolds –Work Cage Components	3.2.0 – 4.1.0
3	Rigging Boatswain’s Chairs And Work Cages – Beam Suspended Components Module Examination and Performance Profile Testing	4.2.0 – 4.3.0

## TRANSPARENCY 2

### TASK MODULE 31107, SUSPENSION SCAFFOLDS

# PERFORMANCE PROFILE TASKS

- 1. Demonstrate the proper methods for rigging suspension scaffolds.**
- 2. Use proper safety considerations for boatswain's chairs, work cages, and beam suspended scaffolds.**
- 3. Rig up boatswain's chairs, work cages, and beam suspended scaffolds.**