



Western Technical College

## 32412405 Diesel Heavy Truck and Forklift Familiarization

### Course Outcome Summary

#### Course Information

<b>Description</b>	This course will familiarize the student with heavy truck operation, coupling and uncoupling trailers, and forklift operations.
<b>Career Cluster</b>	Transportation, Distribution and Logistics
<b>Instructional Level</b>	Technical Diploma Courses
<b>Total Credits</b>	1
<b>Total Hours</b>	36

#### Textbooks

No textbook required.

#### Learner Supplies

Safety glasses with side eye protection that meet Z87 OSHA guidelines. **Vendor:** To be discussed in class. Required.

Six inch ankle high, quality leather work shoes - \$75.00-100.00. **Vendor:** To be discussed in class. Required.

Uniform: Four black/grey shirts with embroidered name. **Vendor:** Campus Shop. Required.

#### High Impact Practices

1. Learning Community: these courses are designed to enhance your learning experience in which a cohort of peers complete two or more courses that are linked through projects, themes, or program

emphasis.

## Course Competencies

### 1. Identify controls and components of heavy truck.

#### Assessment Strategies

- 1.1. Skill demonstration
- 1.2. Written Objective tests

#### Criteria

*You will know you are successful when*

- 1.1. you complete task sheets with average score of three.
- 1.2. you wear personal protective equipment.
- 1.3. you follow all safety, set up, and clean up procedures.
- 1.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 1.5. you perform the critical steps in the right order.
- 1.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 1.7. you score a 75% or higher on written exams.

#### Learning Objectives

- 1.a. Name all the component parts of the truck.
- 1.b. Name all of the controls on the truck.
- 1.c. Describe the purpose of all gauges and lights.
- 1.d. Identify all safety features of the truck.

### 2. Examine the function of all controls and components of a heavy truck.

#### Assessment Strategies

- 2.1. Skill demonstration
- 2.2. Written Objective tests

#### Criteria

*You will know you are successful when*

- 2.1. you complete task sheets with average score of three.
- 2.2. you wear personal protective equipment.
- 2.3. you follow all safety, set up and clean up procedures.
- 2.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 2.5. you perform the critical steps in the right order.
- 2.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 2.7. you score a 75% or higher on written exams.

#### Learning Objectives

- 2.a. Describe the function of all the controls in the truck.
- 2.b. Identify transmission type.
- 2.c. Identify braking system and safety components.
- 2.d. Adjust operator station.

### 3. Perform pre-trip DOT inspection.

#### Assessment Strategies

- 3.1. Skill demonstration
- 3.2. Written Objective tests

#### Criteria

*You will know you are successful when*

- 3.1. you complete task sheets with average score of three.
- 3.2. you wear personal protective equipment.
- 3.3. you follow all safety, set up, and clean up procedures.
- 3.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 3.5. you perform the critical steps in the right order.

- 3.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 3.7. you score a 75% or higher on written exams.

**Learning Objectives**

- 3.a. Use inspection sheet to guide pre-trip inspection.
- 3.b. Investigate vehicle condition report.
- 3.c. Identify out of service criteria.
- 3.d. Describe relevance for using pre-trip DOT inspection.

**4. Operate truck safely at slow speed in controlled setting.**

**Assessment Strategies**

- 4.1. Skill demonstration
- 4.2. Written Objective tests

**Criteria**

*You will know you are successful when*

- 4.1. you complete task sheets with average score of three.
- 4.2. you wear personal protective equipment.
- 4.3. you follow all safety, set up, and clean up procedures.
- 4.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 4.5. you perform the critical steps in the right order.
- 4.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 4.7. you score a 75% or higher on written exams.

**Learning Objectives**

- 4.a. Perform safe entry/ exit of truck cab.
- 4.b. Verify removal of all obstructions/persons in path of truck operation (secure the safety of the scene).
- 4.c. Perform critical steps in starting the truck.
- 4.d. Perform critical steps in releasing park brake system.
- 4.e. Drive the truck forward, backward, and around obstacles.
- 4.f. Perform critical steps in safely parking the truck and powering down.

**5. Perform safe coupling and uncoupling of trailer.**

**Assessment Strategies**

- 5.1. Skill demonstration
- 5.2. Written Objective tests

**Criteria**

*You will know you are successful when*

- 5.1. you complete task sheets with average score of three.
- 5.2. you wear personal protective equipment.
- 5.3. you follow all safety, set up, and clean up procedures.
- 5.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 5.5. you perform the critical steps in the right order.
- 5.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 5.7. you score a 75% or higher on written exams.

**Learning Objectives**

- 5.a. Use inspection sheet to guide pre-trip inspection.
- 5.b. Investigate vehicle condition report.
- 5.c. Identify out of service criteria.
- 5.d. Describe relevance for using pre-trip DOT inspection
- 5.e. Perform critical steps in safe coupling of trailer.
- 5.f. Perform critical steps in safe uncoupling of trailer.

**6. Identify forklift controls and components; including function of all controls and components.**

**Assessment Strategies**

- 6.1. Skill demonstration
- 6.2. Written Objective tests

## Criteria

*You will know you are successful when*

- 6.1. you complete task sheets with average score of three.
- 6.2. you wear personal protective equipment.
- 6.3. you follow all safety, set up, and clean up procedures.
- 6.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 6.5. you perform the critical steps in the right order.
- 6.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 6.7. you score a 75% or higher on written exams.

## Learning Objectives

- 6.a. Name all the component parts of the forklift.
- 6.b. Name all of the controls on the forklift.
- 6.c. Describe the function of all controls on the forklift.
- 6.d. Describe the purpose of all gauges and lights.
- 6.e. Identify all safety features of the forklift.
- 6.f. Understand forklift capacity placard.

## 7. Perform forklift safety and maintenance checks.

### Assessment Strategies

- 7.1. Skill demonstration
- 7.2. Written Objective tests

## Criteria

*You will know you are successful when*

- 7.1. you complete task sheets with average score of three.
- 7.2. you wear personal protective equipment.
- 7.3. you follow all safety, set up, and clean up procedures.
- 7.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 7.5. you perform the critical steps in the right order.
- 7.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 7.7. you score a 75% or higher on written exams.

## Learning Objectives

- 7.a. Check proper operation of all safety features including seatbelt and alarms.
- 7.b. Check all fluid levels; fill if needed.
- 7.c. Describe expected fluid levels needed for safe operation.
- 7.d. Describe documentation requirements/ log requirements if applicable.
- 7.e. Check wheel and tire condition.
- 7.f. Perform mast and fork visual inspection.

## 8. Operate the forklift.

### Assessment Strategies

- 8.1. Skill demonstration
- 8.2. Written Objective tests

## Criteria

*You will know you are successful when*

- 8.1. you complete task sheets with average score of three.
- 8.2. you wear personal protective equipment.
- 8.3. you follow all safety, set up, and clean up procedures.
- 8.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 8.5. you perform the critical steps in the right order.
- 8.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 8.7. you score a 75% or higher on written exams.

## Learning Objectives

- 8.a. Perform safe mount, dismount. and use of operator restraint for forklift.

- 8.b. Start forklift with attention to gauges and lights.
- 8.c. Operate controls while stationary.
- 8.d. Drive forklift forward, backward, and around obstacles.

**9. Utilize forklift to complete safe lifts and carry of various loads.**

**Assessment Strategies**

- 9.1. Skill demonstration
- 9.2. Written Objective tests

**Criteria**

*You will know you are successful when:*

- 9.1. you complete task sheets with average score of three.
- 9.2. you wear personal protective equipment.
- 9.3. you follow all safety, set up, and clean up procedures.
- 9.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 9.5. you perform the critical steps in the right order.
- 9.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 9.7. you score a 75% or higher on written exams.

**Learning Objectives**

- 9.a. Safely lift various small, balanced loads.
- 9.b. Demonstrate safe carry of load.
- 9.c. Place loads safely.
- 9.d. Explain safety principles that apply to the lift, carry, and set process including communication, visibility, and laws of physics.

**10. Examine safe lift principles for forklift operation.**

**Assessment Strategies**

- 10.1. Skill demonstration
- 10.2. Written Objective tests

**Criteria**

*You will know you are successful when*

- 10.1. you complete task sheets with average score of three.
- 10.2. you wear personal protective equipment.
- 10.3. you follow all safety, set up, and clean up procedures.
- 10.4. you select the correct tools. equipment, instruments, materials, and supplies.
- 10.5. you perform the critical steps in the right order.
- 10.6. you are able to verbalize sound reasoning for decisions made throughout the process.
- 10.7. you score a 75% or higher on written exams.

**Learning Objectives**

- 10.a. Demonstrate hand signals used in forklift operation.
- 10.b. Describe principles of physics that apply to forklift operation including safe lift triangle and load limits.
- 10.c. Examine audible signals used in safe operation of forklift.
- 10.d. Examine critical steps in safe lift, carry, and set process.