



**DIG THIS ACADEMY**  
**800 W ROBAN AVE**  
**LAS VEGAS, NV 89044**  
**PH-702-222-4344**  
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**DIG THIS ACADEMY**  
**HEAVY EQUIPMENT OPERATOR READY**  
**CERTIFICATE PROGRAM**  
**EXCAVATORS|BACKHOES|DOZERS**  
**SKID STEERS|LOADERS|GRADERS**

EFFECTIVE DATE- 01/07/2026

Licensed to operate by the Nevada Commission on Post-Secondary Education

# INTRODUCTION

Dig This Academy is Nevada's first independently run heavy equipment school providing hands on training that students will use in a career as a heavy equipment operator. Dig This Academy is a Las Vegas based training institution that focuses exclusively on entry level heavy equipment training and certification. Dig This Academy provides students with the required training and skills to begin a career as a heavy equipment operator.

# OWNERSHIP

Dig This Academy is owned by Dig This Las Vegas LLC.  
President; Ed Mumm

# FACULTY MEMBERS

Academy Director - Michelle Wyman  
Lead Instructor – Christopher Barrett  
Instructor – Michael Flaherty

# SCHOOL LOCATION/FACILITY

Dig This Academy is located at 800 West Roban Ave, Las Vegas, NV 89044. Our facilities comprise of a 4 acre heavy equipment training area and 4000 Sqft building comprising of class area, reception and administration areas. Extra space for demonstrations and specialty training are located on our large parking lot.

# SCHOOL HOURS AND OFFICE HOURS

Administration Office hours are Monday through Friday 8-4pm. (excluding holidays). Class hours vary by week.

# OBSERVED HOLIDAYS

- New Years Day
- Memorial Day\*
- Independence Day\*
- Labor Day\*
- Veterans Day\*
- Thanksgiving Day
- Christmas Day

\*If the schedule dictates.

# ENTRANCE REQUIREMENTS

All Students enrolling at the Academy must be 18 years of age and have obtained a high school diploma or equivalency. A drivers license (or valid photo ID) must be provided.

# CREDIT FOR PREVIOUS TRAINING

Credit for previous education and training will not be accepted at Dig This Academy (except for students who have completed the NCCER Core Program in post-secondary school)

# NEVADA STUDENT REFUND POLICY

1. Each postsecondary educational institution shall have a policy for refunds which at least provides:
  - (a) That if the institution, Dig This Academy (DTA), has substantially failed to furnish the training program agreed upon in the enrollment agreement, DTA shall refund to a student all the money the student has paid.
  - (b) That if a student cancels his or her enrollment before the start of the training program, DTA shall refund to the student all the money the student has paid, minus 10 percent of the tuition agreed upon in the enrollment agreement or \$150, whichever is less.
  - (c) That if a student withdraws or is expelled by DTA after the start of the training program and before the completion of more than 60 percent of the program, DTA shall refund to the student a pro rata amount of the tuition agreed upon in the enrollment agreement, less 10 percent of the tuition agreed upon in the enrollment agreement or \$150, whichever is less.
  - (d) That if a student withdraws or is expelled by DTA after completion of more than 60 percent of the training program, DTA is not required to refund the student any money and may charge the student the entire cost of the tuition agreed upon in the enrollment agreement.
2. If a refund is owed pursuant to subsection 1, DTA shall pay the refund to the person or entity who paid the tuition within 15 calendar days after the:
  - (a) Date of cancellation by a student of his or her enrollment;
  - (b) Date of termination by the institution of the enrollment of a student.
  - (c) Last day of an authorized leave of absence if a student fails to return after the period of authorized absence; or
  - (d) Last day of attendance of a student, whichever is applicable.
  - (e) That if a student with a signed ITA is a no-show on the first day of class without 24-hour written notice to the Academy Director, the funding entity shall pay DTA a \$500 administrative fee.
3. Books, educational supplies or equipment for individual use are not included in the policy for refund required by subsection 1, and a separate refund must be paid by DTA to the student if those items were not used by the student. Disputes must be resolved by the Administrator for refunds required by this subsection on a case-by-case basis.
4. For the purposes of this section:
  - (a) The period of a student's attendance must be measured from the first day of instruction as set forth in the enrollment agreement through the student's last day of actual attendance, regardless of absences.
  - (b) The period for a training program is the period set forth in the enrollment agreement.
  - (c) Tuition must be calculated using the tuition and fees set forth in the enrollment agreement and does not include books, educational supplies or equipment that is listed separately from the tuition and fees.
5. As used in this section, "substantially failed to furnish" includes cancelling or changing a training program agreed upon in the enrollment agreement without:
  - (a) Offering the student a fair chance to complete the same program or another program with a demonstrated possibility of placement equal to or higher than the possibility of placement of the program in which the student is enrolled within approximately the same period at no additional cost; or
  - (b) Obtaining the written agreement of the student to the specified changes and a statement that the student is not being coerced or forced into accepting the changes, unless the cancellation or change of a program is in response to a change in the requirements to enter an occupation.

(Added to NRS by [1985, 989](#); A [1989, 1460](#); [1995, 325](#); [2005, 635](#); [2015, 341](#); [2021, 517](#))

## STUDENT COMPLAINT PROCESS

Students who wish to file a complaint must first attempt to resolve the issue through the institution's internal complaint process. Complaints should be submitted in writing to the Director of Dig This Academy within 7 days of the incident at [michelle@digthis.info](mailto:michelle@digthis.info). The institution will review and respond to the complaint within 14 business days. If a student is dissatisfied with the resolution, they may file a complaint with the **Commission on Postsecondary Education** at the following address:

### **Commission on Postsecondary Education**

2800 E. St. Louis Avenue

Las Vegas, NV 89104

702-486-7330

[cpe.nv.gov](http://cpe.nv.gov)

# **CANCELLATION POLICY**

I understand that I may cancel my agreement up to (3) days after signing with no penalty. To cancel my agreement, I will contact the **Dig This Academy** directly by email at [michelle@digthis.info](mailto:michelle@digthis.info)

# **ACCOUNT FOR STUDENT INDEMNIFICATION**

In an event of a schools discontinued operation or a violation by the institution per NRS 394.383 to NAC 394.560, an account for student indemnification may be used to indemnify a current student or enrollee who has suffered damage as a result of: discontinuance of operation or violation by such institution of any provision of NRS 394.383 to 394.560.

# **ATTENDANCE POLICY**

DIG THIS ACADEMY expects students to attend all regularly scheduled classes for instruction and examination. When a student is compelled, for any reason, to be absent from class, the student should immediately convey the reason for the absence directly to the instructor. The student is responsible for all material presented in class and for all announcements and assignments. DIG THIS ACADEMY offers programs of varying length and intensities. For our on-site programs, you will sign-in each morning with your instructor(s). All students are expected to be on time for class each morning, and prompt in their return from lunch. Since a majority of the course is hands-on work with heavy equipment and students work with partners, promptness is particularly important.

DIG THIS ACADEMY wants to see every student succeed and will work with students missing classes to the best of our abilities. The decision to permit students to 'make-up' work that is required in any missed class due to extenuating circumstances resides at the discretion of the instructor &/or academic director. Extenuating circumstances for absence include: hazardous weather conditions, personal hardship, extended illness or hospitalization, family emergencies, or death in the immediate family. Instructors may request documentation to verify the extenuating circumstances. Students who are absent because of illness (Covid-19, influenza, etc.) will be afforded the opportunity to make up missed classes if/when they return to full health and are cleared by a medical professional to return to class.

**SUSPENSION & DISMISSAL** - A student is only suspended for extreme behavior. Suspensions occur if a student arrives at school under the influence of drugs or alcohol, or in instances for disregard for the safety of themselves and/ or others. Any incident is handled on an individual basis. Repeated offenses may result in dismissal. Reasons for dismissal include the second violation for a suspension, and a required meeting between the student and the Director, and funding agency (if applicable). Reasons for dismissal include arriving at class under the influence of drugs or alcohol, or extreme safety violations. If a student fails to return or is dismissed, his/her tuition is refunded on a prorated basis, as described in the Refund Policy section. To be readmitted, a dismissed student must reapply, explain in writing how his/her behavior will be different this time, and sign a new Student Enrollment Agreement.

## **ATTENDANCE REQUIREMENTS**

- **HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAMS**– Due to the intensive nature of these certifications, 100% classroom attendance is required to successfully complete this program. 100% of all proctored written exams and hands-on practical exams must be completed prior to a certificate being awarded.

## STUDENT CONDUCT

Students will be *terminated* for violation any of the following rules and regulations. All students are expected to act maturely and are required to respect other students and faculty members

1. Any student caught cheating on exams or assignments or committing plagiarism.
2. Any sexual misconduct, i.e.: unprofessional advances, vulgar or offensive language, innuendoes, or harassment on the school's premises.
3. Disruptive, abusive, or unprofessional behavior.
4. Any student under the influence or in possession of alcohol, marijuana, or any controlled substances on the school's premises.
5. Any student having possession of firearms or weapons of any nature on the school's premises.
6. Threat or physical altercation with staff, faculty, or another student.

## STANDARD OF ACADEMIC PROGRESS

| Grade | Standing         | Percentage |
|-------|------------------|------------|
| A     | Excellent        | 93-100%    |
| B     | Good             | 86-92%     |
| C     | Average          | 70-85%     |
| F     | Failing          | 0-69%      |
| I     | Incomplete       | N/A        |
| X     | Leave of Absence | N/A        |
| W     | Withdrawn        | N/A        |
| T     | Terminated       | N/A        |

All Students must meet the following minimum standards of Academic Progress (SAP):

- Maintain a minimum cumulative **C** grade average
- Feedback on student progress is provided on a daily basis, which is possible due to the high teacher to student ratio. At the close of each day, the instructors meet and discuss the progress of individual students and the class as a whole, and adjustments are made as needed. Students are evaluated throughout the course based on competency-based learning objectives.

## PROGRAM TUITION

Full tuition is required prior to start of course. An invoice will be sent 2 weeks prior to course start date and full payment is expected within one week of attending.

HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAMS - \$3,800  
REQUIRED BOOKS/PPE - INCLUDED

## CAREER /PLACEMENT SERVICES

Dig This Academy offers employment assistance to graduates, consisting of job lead referrals and further job skills development. While assisting in your job search, we make no guarantee, expressed or implied, of future employment. Current law prohibits any school from guaranteeing job placement as an inducement to enroll students.

## OVERNIGHT ACCOMMODATIONS

Several hotels and restaurants are available in the Las Vegas area. The student pays all hotel and food costs. A list of nearby hotels can be found via any search engine.

## 2026 PROGRAM SCHEDULE

Anticipated program schedule as follows. Program sessions will be scheduled on a weekly basis, subject to demand and instructor availability.

| <b>Jan-26</b> | <b>Feb-26</b> | <b>Mar-26</b> | <b>Apr-26</b> | <b>May-26</b> | <b>Jun-26</b> |
|---------------|---------------|---------------|---------------|---------------|---------------|
| 5th           | 2nd           | N/A           | 6th           | 4th           | 1st           |
| 12th          | 9th           | 9th           | 13th          | 11th          | 8th           |
| 19th          | 16th          | 16th          | 20th          | 18th          | 15th          |
| 26th          | N/A           | 23rd          | 27th          | 25th          | 22nd          |
|               |               | 30th          |               |               | 29th          |
| <b>Jul-26</b> | <b>Aug-26</b> | <b>Sep-26</b> | <b>Oct-26</b> | <b>Nov-26</b> | <b>Dec-26</b> |
| 6th           | 3rd           | 7th           | 5th           | 2nd           | 7th           |
| 13th          | 10th          | 14th          | 12th          | 9th           | 14th          |
| 20th          | 17th          | 21st          | 19th          | 16th          | N/A           |
| 27th          | 24th          | 28th          | 26th          | N/A           | N/A           |
|               | 31st          |               |               | 30th          |               |

# HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAM - EXCAVATORS

THIS CERTIFICATE OF COMPLETION COURSE IS DESIGNED TO PROVIDE THE SAFETY KNOWLEDGE AND BASIC INFORMATION, ALONG WITH OVER 30 HRS OF HANDS-ON STRUCTURED CONCENTRATION ON A SPECIFIED TYPE OF HEAVY EQUIPMENT.

UPON COMPLETION OF THIS PROGRAM TRAINEES WILL HAVE THE KNOWLEDGE AND EXPERIENCE TO ENTER THE WORKFORCE AS AN ENTRY LEVEL OPERATOR THAT IS SAFE AND PRODUCTIVE ON DAY ONE OF EMPLOYMENT.

TRAINEES WILL RECEIVE A DIG THIS ACADEMY, CERTIFICATE OF COMPLETION FOR SUCCESSFULLY COMPLETING 40 HOURS OF CONCENTRATED STUDY AND DEMONSTRATING PROFICIENCIES ON EXCAVATORS.

TRAINEES WILL ALSO HAVE A DOCUMENTED TRAINING COMPLETION TRANSCRIPT IN NCCER'S REGISTRY

## **PROGRAM REQUIREMENTS:**

SUCCESSFUL COMPLETION OF 3 REQUIRED MODULES  
16 HOURS OF CLASSROOM TRAINING  
24 HOURS OF PRACTICAL TRAINING

### **22102 HEAVY EQUIPMENT SAFETY**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

#### **LEARNING OBJECTIVE #1 – EXPLAIN WORK ZONE SAFETY REQUIREMENTS**

- DESCRIBE SIGNS, BARRIERS AND OTHER DEVICES AND METHODS USED FOR WORK ZONE SAFETY.
- DESCRIBE TRAFFIC CONTROL SAFETY METHODS.

#### **LEARNING OBJECTIVE #2 – EXPLAIN HAZARD COMMUNICATION**

- EXPLAIN THE PURPOSE AND CONTENT OF SAFETY DATA SHEETS (SDS)
- DESCRIBE THE LABELING SYSTEM USED FOR HAZARDOUS MATERIALS.
- DESCRIBE NOISE CONTROL METHODS.

#### **LEARNING OBJECTIVE #3 – IDENTIFY AND DESCRIBE SAFETY PRACTICES ASSOCIATED WITH HEAVY EQUIPMENT OPERATION.**

- LIST JOB SITE AND EQUIPMENT SAFETY REQUIREMENTS
- EXPLAIN THE SAFETY HAZARDS ASSOCIATED WITH WEATHER.
- EXPLAIN SAFETY PRACTICES ASSOCIATED WITH EQUIPMENT MAINTENANCE

#### **LEARNING OBJECTIVE #4 – IDENTIFY SAFETY PRACTICES ASSOCIATED WITH TRENCHES AND EXCAVATIONS.**

- EXPLAIN HOW SOIL COMPOSITION RELATES TO TRENCH FAILURES.
- DESCRIBE THE METHODS USED TO PROTECT WORKERS IN TRENCHES AND EXCAVATIONS.
- IDENTIFY PERSONAL SAFETY HAZARDS RELATED TO DUST AND SOIL.

## **22104 BASIC OPERATIONAL TECHNIQUES**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PRESTART PROCEDURES FOR HEAVY EQUIPMENT

- DESCRIBE HOW TO SAFELY MOUNT A VEHICLE
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR EQUIPMENT, ATTACHMENTS AND TIRES.
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR POWER TRAINS
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR HYDRAULIC SYSTEMS.

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PROCEDURES FOR STARTING, OPERATING, AND SHUTTING DOWN HEAVY EQUIPMENT

- DESCRIBE HOW TO PERFORM INITIAL CHECKS.
- DESCRIBE BASIC OPERATING PROCEDURES FOR THE VARIOUS ITEMS OF EQUIPMENT.
- EXPLAIN HOW TO PROPERLY SHUT DOWN AND SECURE EQUIPMENT.

## **22304 EXCAVATORS**

24 HOURS (4 CLASSROOM, 20 PRACTICAL)

### **LEARNING OBJECTIVE #1 - IDENTIFY AND DESCRIBE TYPES, USES, AND COMPONENTS OF EXCAVATORS.**

- IDENTIFY AND DESCRIBE COMMON TYPES OF EXCAVATORS.
- IDENTIFY AND DESCRIBE COMMON USES OF EXCAVATORS.
- IDENTIFY AND DESCRIBE MAJOR PARTS OF EXCAVATORS.
- IDENTIFY AND DESCRIBE EXCAVATOR INSTRUMENTATION AND CONTROLS.
- IDENTIFY AND DESCRIBE COMMON EXCAVATOR BUCKETS AND ATTACHMENTS.

### **LEARNING OBJECTIVE #2 - IDENTIFY AND DESCRIBE SAFETY, INSPECTION, AND SERVICE GUIDELINES ASSOCIATED WITH AN EXCAVATOR.**

- DESCRIBE GUIDELINES ASSOCIATED WITH EXCAVATOR SAFETY.
- DESCRIBE PRESTART INSPECTION PROCEDURES.
- DESCRIBE PREVENTIVE MAINTENANCE REQUIREMENTS.

### **LEARNING OBJECTIVE #3 - DESCRIBE BASIC STARTUP AND OPERATING PROCEDURES FOR A TRACK-MOUNTED HYDRAULIC EXCAVATOR.**

- DESCRIBE STARTUP, WARM-UP, AND SHUTDOWN PROCEDURES.
- DESCRIBE BASIC MANEUVERS AND OPERATIONS.
- DESCRIBE COMMON WORK ACTIVITIES.
- DESCRIBE ACTIVITIES INVOLVING SPECIAL ATTACHMENTS.

# HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAM - BACKHOE

THIS CERTIFICATE OF COMPLETION COURSE IS DESIGNED TO PROVIDE THE SAFETY KNOWLEDGE AND BASIC INFORMATION, ALONG WITH OVER 30 HRS OF HANDS-ON STRUCTURED CONCENTRATION ON A SPECIFIED TYPE OF HEAVY EQUIPMENT.

UPON COMPLETION OF THIS PROGRAM TRAINEES WILL HAVE THE KNOWLEDGE AND EXPERIENCE TO ENTER THE WORKFORCE AS AN ENTRY LEVEL OPERATOR THAT IS SAFE AND PRODUCTIVE ON DAY ONE OF EMPLOYMENT.

TRAINEES WILL RECEIVE A DIG THIS ACADEMY, CERTIFICATE OF COMPLETION FOR SUCCESSFULLY COMPLETING 40 HOURS OF CONCENTRATED STUDY AND DEMONSTRATING PROFICIENCIES ON BACKHOES.

TRAINEES WILL ALSO HAVE A DOCUMENTED TRAINING COMPLETION TRANSCRIPT IN NCCER'S REGISTRY

## **PROGRAM REQUIREMENTS:**

SUCCESSFUL COMPLETION OF 3 REQUIRED MODULES

16 HOURS OF CLASSROOM TRAINING

24 HOURS OF PRACTICAL TRAINING

## **22102 HEAVY EQUIPMENT SAFETY**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1 – EXPLAIN WORK ZONE SAFETY REQUIREMENTS**

- DESCRIBE SIGNS, BARRIERS AND OTHER DEVICES AND METHODS USED FOR WORK ZONE SAFETY.
- DESCRIBE TRAFFIC CONTROL SAFETY METHODS.

### **LEARNING OBJECTIVE #2 – EXPLAIN HAZARD COMMUNICATION**

- EXPLAIN THE PURPOSE AND CONTENT OF SAFETY DATA SHEETS (SDS)
- DESCRIBE THE LABELING SYSTEM USED FOR HAZARDOUS MATERIALS.
- DESCRIBE NOISE CONTROL METHODS.

### **LEARNING OBJECTIVE #3 – IDENTIFY AND DESCRIBE SAFETY PRACTICES ASSOCIATED WITH HEAVY EQUIPMENT OPERATION.**

- LIST JOB SITE AND EQUIPMENT SAFETY REQUIREMENTS
- EXPLAIN THE SAFETY HAZARDS ASSOCIATED WITH WEATHER.
- EXPLAIN SAFETY PRACTICES ASSOCIATED WITH EQUIPMENT MAINTENANCE

### **LEARNING OBJECTIVE #4 – IDENTIFY SAFETY PRACTICES ASSOCIATED WITH TRENCHES AND EXCAVATIONS.**

- EXPLAIN HOW SOIL COMPOSITION RELATES TO TRENCH FAILURES.
- DESCRIBE THE METHODS USED TO PROTECT WORKERS IN TRENCHES AND EXCAVATIONS.
- IDENTIFY PERSONAL SAFETY HAZARDS RELATED TO DUST AND SOIL.

## **22104 BASIC OPERATIONAL TECHNIQUES**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PRESTART PROCEDURES FOR HEAVY EQUIPMENT

- DESCRIBE HOW TO SAFELY MOUNT A VEHICLE
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR EQUIPMENT, ATTACHMENTS AND TIRES.
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR POWER TRAINS
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR HYDRAULIC SYSTEMS.

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PROCEDURES FOR STARTING, OPERATING, AND SHUTTING DOWN HEAVY EQUIPMENT

- DESCRIBE HOW TO PERFORM INITIAL CHECKS.
- DESCRIBE BASIC OPERATING PROCEDURES FOR THE VARIOUS ITEMS OF EQUIPMENT.
- EXPLAIN HOW TO PROPERLY SHUT DOWN AND SECURE EQUIPMENT.

## **22303 BACKHOES**

24 HOURS (4 CLASSROOM, 20 PRACTICAL)

### **LEARNING OBJECTIVE 1 - IDENTIFY AND DESCRIBE COMMON USES AND TYPES OF BACKHOES.**

- DESCRIBE COMMON USES OF A BACKHOE.
- IDENTIFY TYPES AND CONFIGURATIONS OF BACKHOES.

### **LEARNING OBJECTIVE 2 - IDENTIFY AND DESCRIBE THE COMPONENTS, CONTROLS, AND ATTACHMENTS ON A TYPICAL BACKHOE.**

- DESCRIBE THE MAJOR PARTS OF A BACKHOE.
- DESCRIBE THE INSTRUMENTS AND CONTROLS.
- DESCRIBE THE BACKHOE CONTROLS.
- DESCRIBE COMMON BACKHOE ATTACHMENTS.

### **LEARNING OBJECTIVE 3 - IDENTIFY AND DESCRIBE SAFETY, INSPECTION, AND SERVICE GUIDELINES ASSOCIATED WITH A BACKHOE.**

- DESCRIBE RULES PERTAINING TO SAFETY.
- DESCRIBE DAILY INSPECTION CHECKS.
- DESCRIBE THE SERVICING REQUIREMENTS FOR A BACKHOE.

### **LEARNING OBJECTIVE 4 - DESCRIBE BASIC OPERATING PROCEDURES FOR A BACKHOE.**

- IDENTIFY FACTORS FOR EFFECTIVE BACKHOE OPERATION.
- IDENTIFY STEPS FOR PREPARING TO WORK WITH A BACKHOE.
- IDENTIFY STEPS FOR PERFORMING BASIC MANEUVERS WITH A BACKHOE.

### **LEARNING OBJECTIVE 5 - IDENTIFY AND DESCRIBE COMMON WORK ACTIVITIES FOR A BACKHOE.**

- DESCRIBE LOADING FROM A STOCKPILE WITH A BACKHOE.
- DESCRIBE TRENCHING AND LOADING WITH A BACKHOE.
- DESCRIBE DEMOLITION USING THE HYDRAULIC BREAKER.
- DESCRIBE SETTING PIPE USING A BACKHOE.
- DESCRIBE EXCAVATING FOOTINGS AND FOUNDATIONS WITH A BACKHOE.

- DESCRIBE WORKING WITH A BACKHOE IN CONFINED OR UNSTABLE AREAS.
- DESCRIBE BASIC PROCEDURES FOR ROADING AND TRANSPORTING A BACKHOE.

# HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAM - DOZERS

THIS CERTIFICATE OF COMPLETION COURSE IS DESIGNED TO PROVIDE THE SAFETY KNOWLEDGE AND BASIC INFORMATION, ALONG WITH OVER 30 HRS OF HANDS-ON STRUCTURED CONCENTRATION ON A SPECIFIED TYPE OF HEAVY EQUIPMENT.

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TRAINEES WILL RECEIVE A DIG THIS ACADEMY, CERTIFICATE OF COMPLETION FOR SUCCESSFULLY COMPLETING 40 HOURS OF CONCENTRATED STUDY AND DEMONSTRATING PROFICIENCIES ON DOZERS.

TRAINEES WILL ALSO HAVE A DOCUMENTED TRAINING COMPLETION TRANSCRIPT IN NCCER'S REGISTRY

## **PROGRAM REQUIREMENTS:**

SUCCESSFUL COMPLETION OF 3 REQUIRED MODULES  
16 HOURS OF CLASSROOM TRAINING  
24 HOURS OF PRACTICAL TRAINING

### **22102 HEAVY EQUIPMENT SAFETY**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

#### **LEARNING OBJECTIVE #1 – EXPLAIN WORK ZONE SAFETY REQUIREMENTS**

- DESCRIBE SIGNS, BARRIERS AND OTHER DEVICES AND METHODS USED FOR WORK ZONE SAFETY.
- DESCRIBE TRAFFIC CONTROL SAFETY METHODS.

#### **LEARNING OBJECTIVE #2 – EXPLAIN HAZARD COMMUNICATION**

- EXPLAIN THE PURPOSE AND CONTENT OF SAFETY DATA SHEETS (SDS)
- DESCRIBE THE LABELING SYSTEM USED FOR HAZARDOUS MATERIALS.
- DESCRIBE NOISE CONTROL METHODS.

#### **LEARNING OBJECTIVE #3 – IDENTIFY AND DESCRIBE SAFETY PRACTICES ASSOCIATED WITH HEAVY EQUIPMENT OPERATION.**

- LIST JOB SITE AND EQUIPMENT SAFETY REQUIREMENTS
- EXPLAIN THE SAFETY HAZARDS ASSOCIATED WITH WEATHER.
- EXPLAIN SAFETY PRACTICES ASSOCIATED WITH EQUIPMENT MAINTENANCE

#### **LEARNING OBJECTIVE #4 – IDENTIFY SAFETY PRACTICES ASSOCIATED WITH TRENCHES AND EXCAVATIONS.**

- EXPLAIN HOW SOIL COMPOSITION RELATES TO TRENCH FAILURES.
- DESCRIBE THE METHODS USED TO PROTECT WORKERS IN TRENCHES AND EXCAVATIONS.
- IDENTIFY PERSONAL SAFETY HAZARDS RELATED TO DUST AND SOIL.

## **22104 BASIC OPERATIONAL TECHNIQUES**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PRESTART PROCEDURES FOR HEAVY EQUIPMENT

- DESCRIBE HOW TO SAFELY MOUNT A VEHICLE
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR EQUIPMENT, ATTACHMENTS AND TIRES.
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR POWER TRAINS
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR HYDRAULIC SYSTEMS.

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PROCEDURES FOR STARTING, OPERATING, AND SHUTTING DOWN HEAVY EQUIPMENT

- DESCRIBE HOW TO PERFORM INITIAL CHECKS.
- DESCRIBE BASIC OPERATING PROCEDURES FOR THE VARIOUS ITEMS OF EQUIPMENT.
- EXPLAIN HOW TO PROPERLY SHUT DOWN AND SECURE EQUIPMENT.

## **22302 DOZERS**

24 HOURS (4 CLASSROOM, 20 PRACTICAL)

### **LEARNING OBJECTIVE #1 – IDENTIFY AND DESCRIBE THE USES AND COMPONENTS OF A DOZER.**

- IDENTIFY AND DESCRIBE COMMON USES AND TYPES OF DOZERS.
- IDENTIFY AND DESCRIBE MAJOR PARTS OF A DOZER.
- IDENTIFY AND DESCRIBE DOZER INSTRUMENTATION.
- IDENTIFY AND DESCRIBE DOZER CONTROLS.
- IDENTIFY AND DESCRIBE COMMON DOZER BLADES.
- IDENTIFY AND DESCRIBE COMMON DOZER

### **LEARNING OBJECTIVE #2 – IDENTIFY AND DESCRIBE SAFETY, INSPECTION AND SERVICE GUIDELINES ASSOCIATED WITH A DOZER.**

- DESCRIBE GUIDELINES ASSOCIATED WITH DOZER SAFETY.
- DESCRIBE PRESTART INSPECTION PROCEDURES.
- DESCRIBE PREVENTIVE MAINTENANCE

### **LEARNING OBJECTIVE #3 – DESCRIBE BASIC START UP AND OPERATING PROCEDURES FOR A DOZER.**

- DESCRIBE STARTUP, WARM-UP, AND SHUT DOWN PROCEDURES.
- DESCRIBE BASIC MANEUVERS AND OPERATIONS.
- DESCRIBE COMMON WORK ACTIVITIES.

# HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAM - LOADER

THIS CERTIFICATE OF COMPLETION COURSE IS DESIGNED TO PROVIDE THE SAFETY KNOWLEDGE AND BASIC INFORMATION, ALONG WITH OVER 30 HRS OF HANDS-ON STRUCTURED CONCENTRATION ON A SPECIFIED TYPE OF HEAVY EQUIPMENT.

UPON COMPLETION OF THIS PROGRAM TRAINEES WILL HAVE THE KNOWLEDGE AND EXPERIENCE TO ENTER THE WORKFORCE AS AN ENTRY LEVEL OPERATOR THAT IS SAFE AND PRODUCTIVE ON DAY ONE OF EMPLOYMENT.

TRAINEES WILL RECEIVE A DIG THIS ACADEMY, CERTIFICATE OF COMPLETION FOR SUCCESSFULLY COMPLETING 40 HOURS OF CONCENTRATED STUDY AND DEMONSTRATING PROFICIENCIES ON LOADERS.

TRAINEES WILL ALSO HAVE A DOCUMENTED TRAINING COMPLETION TRANSCRIPT IN NCCER'S REGISTRY

## **PROGRAM REQUIREMENTS:**

SUCCESSFUL COMPLETION OF 3 REQUIRED MODULES

16 HOURS OF CLASSROOM TRAINING

24 HOURS OF PRACTICAL TRAINING

## **22102 HEAVY EQUIPMENT SAFETY**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1 – EXPLAIN WORK ZONE SAFETY REQUIREMENTS**

- DESCRIBE SIGNS, BARRIERS AND OTHER DEVICES AND METHODS USED FOR WORK ZONE SAFETY.
- DESCRIBE TRAFFIC CONTROL SAFETY METHODS.

### **LEARNING OBJECTIVE #2 – EXPLAIN HAZARD COMMUNICATION**

- EXPLAIN THE PURPOSE AND CONTENT OF SAFETY DATA SHEETS (SDS)
- DESCRIBE THE LABELING SYSTEM USED FOR HAZARDOUS MATERIALS.
- DESCRIBE NOISE CONTROL METHODS.

### **LEARNING OBJECTIVE #3 – IDENTIFY AND DESCRIBE SAFETY PRACTICES ASSOCIATED WITH HEAVY EQUIPMENT OPERATION.**

- LIST JOB SITE AND EQUIPMENT SAFETY REQUIREMENTS
- EXPLAIN THE SAFETY HAZARDS ASSOCIATED WITH WEATHER.
- EXPLAIN SAFETY PRACTICES ASSOCIATED WITH EQUIPMENT MAINTENANCE

### **LEARNING OBJECTIVE #4 – IDENTIFY SAFETY PRACTICES ASSOCIATED WITH TRENCHES AND EXCAVATIONS.**

- EXPLAIN HOW SOIL COMPOSITION RELATES TO TRENCH FAILURES.
- DESCRIBE THE METHODS USED TO PROTECT WORKERS IN TRENCHES AND EXCAVATIONS.
- IDENTIFY PERSONAL SAFETY HAZARDS RELATED TO DUST AND SOIL.

## **22104 BASIC OPERATIONAL TECHNIQUES**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PRESTART PROCEDURES FOR HEAVY EQUIPMENT

- DESCRIBE HOW TO SAFELY MOUNT A VEHICLE
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR EQUIPMENT, ATTACHMENTS AND TIRES.
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR POWER TRAINS
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR HYDRAULIC SYSTEMS.

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PROCEDURES FOR STARTING, OPERATING, AND SHUTTING DOWN HEAVY EQUIPMENT

- DESCRIBE HOW TO PERFORM INITIAL CHECKS.
- DESCRIBE BASIC OPERATING PROCEDURES FOR THE VARIOUS ITEMS OF EQUIPMENT.
- EXPLAIN HOW TO PROPERLY SHUT DOWN AND SECURE EQUIPMENT.

## **22205 LOADERS**

24 HOURS (4 CLASSROOM, 20 PRACTICAL)

### **LEARNING OBJECTIVE 1 - IDENTIFY AND DESCRIBE THE COMPONENTS OF A LOADER.**

- IDENTIFY AND DESCRIBE CHASSIS COMPONENTS.
- IDENTIFY AND DESCRIBE LOADER CONTROLS.
- IDENTIFY AND DESCRIBE LOADER INSTRUMENTATION.
- IDENTIFY AND DESCRIBE LOADER ATTACHMENTS.

### **LEARNING OBJECTIVE 2 - DESCRIBE THE PRESTART INSPECTION AND PREVENTIVE MAINTENANCE REQUIREMENTS FOR A LOADER.**

- DESCRIBE PRESTART INSPECTION PROCEDURES.
- DESCRIBE PREVENTIVE MAINTENANCE REQUIREMENTS.

### **LEARNING OBJECTIVE 3 DESCRIBE THE STARTUP AND OPERATING PROCEDURES FOR A LOADER.**

- STATE LOADER-RELATED SAFETY GUIDELINES.
- DESCRIBE STARTUP, WARM-UP, AND SHUTDOWN PROCEDURES.
- DESCRIBE BASIC MANEUVERS AND OPERATIONS.
- DESCRIBE RELATED WORK ACTIVITIES.

# HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAM - GRADER

THIS CERTIFICATE OF COMPLETION COURSE IS DESIGNED TO PROVIDE THE SAFETY KNOWLEDGE AND BASIC INFORMATION, ALONG WITH OVER 30 HRS OF HANDS-ON STRUCTURED CONCENTRATION ON A SPECIFIED TYPE OF HEAVY EQUIPMENT.

UPON COMPLETION OF THIS PROGRAM TRAINEES WILL HAVE THE KNOWLEDGE AND EXPERIENCE TO ENTER THE WORKFORCE AS AN ENTRY LEVEL OPERATOR THAT IS SAFE AND PRODUCTIVE ON DAY ONE OF EMPLOYMENT.

TRAINEES WILL RECEIVE A DIG THIS ACADEMY, CERTIFICATE OF COMPLETION FOR SUCCESSFULLY COMPLETING 40 HOURS OF CONCENTRATED STUDY AND DEMONSTRATING PROFICIENCIES ON MOTOR GRADERS.

TRAINEES WILL ALSO HAVE A DOCUMENTED TRAINING COMPLETION TRANSCRIPT IN NCCER'S REGISTRY

## **PROGRAM REQUIREMENTS:**

SUCCESSFUL COMPLETION OF 3 REQUIRED MODULES

16 HOURS OF CLASSROOM TRAINING

24 HOURS OF PRACTICAL TRAINING

## **22102 HEAVY EQUIPMENT SAFETY**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1 – EXPLAIN WORK ZONE SAFETY REQUIREMENTS**

- DESCRIBE SIGNS, BARRIERS AND OTHER DEVICES AND METHODS USED FOR WORK ZONE SAFETY.
- DESCRIBE TRAFFIC CONTROL SAFETY METHODS.

### **LEARNING OBJECTIVE #2 – EXPLAIN HAZARD COMMUNICATION**

- EXPLAIN THE PURPOSE AND CONTENT OF SAFETY DATA SHEETS (SDS)
- DESCRIBE THE LABELING SYSTEM USED FOR HAZARDOUS MATERIALS.
- DESCRIBE NOISE CONTROL METHODS.

### **LEARNING OBJECTIVE #3 – IDENTIFY AND DESCRIBE SAFETY PRACTICES ASSOCIATED WITH HEAVY EQUIPMENT OPERATION.**

- LIST JOB SITE AND EQUIPMENT SAFETY REQUIREMENTS
- EXPLAIN THE SAFETY HAZARDS ASSOCIATED WITH WEATHER.
- EXPLAIN SAFETY PRACTICES ASSOCIATED WITH EQUIPMENT MAINTENANCE

### **LEARNING OBJECTIVE #4 – IDENTIFY SAFETY PRACTICES ASSOCIATED WITH TRENCHES AND EXCAVATIONS.**

- EXPLAIN HOW SOIL COMPOSITION RELATES TO TRENCH FAILURES.
- DESCRIBE THE METHODS USED TO PROTECT WORKERS IN TRENCHES AND EXCAVATIONS.
- IDENTIFY PERSONAL SAFETY HAZARDS RELATED TO DUST AND SOIL.

## **22104 BASIC OPERATIONAL TECHNIQUES**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PRESTART PROCEDURES FOR HEAVY EQUIPMENT

- DESCRIBE HOW TO SAFELY MOUNT A VEHICLE
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR EQUIPMENT, ATTACHMENTS AND TIRES.
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR POWER TRAINS
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR HYDRAULIC SYSTEMS.

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PROCEDURES FOR STARTING, OPERATING, AND SHUTTING DOWN HEAVY EQUIPMENT

- DESCRIBE HOW TO PERFORM INITIAL CHECKS.
- DESCRIBE BASIC OPERATING PROCEDURES FOR THE VARIOUS ITEMS OF EQUIPMENT.
- EXPLAIN HOW TO PROPERLY SHUT DOWN AND SECURE EQUIPMENT.

## **22305 MOTOR GRADERS**

24 HOURS (4 CLASSROOM, 20 PRACTICAL)

### **LEARNING OBJECTIVE 1 - IDENTIFY AND DESCRIBE THE COMPONENTS OF A MOTOR GRADER.**

- IDENTIFY AND DESCRIBE COMMON USES AND TYPES OF MOTOR GRADERS.
- IDENTIFY AND DESCRIBE MAJOR PARTS OF A MOTOR GRADER
- IDENTIFY AND DESCRIBE INSTRUMENTATION
- IDENTIFY AND DESCRIBE CONTROLS OF A MOTOR GRADER
- IDENTIFY AND DESCRIBE SPECIAL BLADES AND ATTACHMENTS

### **LEARNING OBJECTIVE 2 – SAFETY, INSPECTION AND MAINTENANCE**

- DESCRIBE SAFETY GUIDELINES
- DESCRIBE PRESTART INSPECTION PROCEDURES
- DESCRIBE PREVENTATIVE MAINTENANCE

### **LEARNING OBJECTIVE 3 BASIC STARTUP AND OPERATIONS.**

- DESCRIBE STARTUP, WARM-UP, AND SHUTDOWN PROCEDURES.
- DESCRIBE BASIC MANEUVERS AND OPERATIONS.
- DESCRIBE RELATED WORK ACTIVITIES.

# HEAVY EQUIPMENT OPERATOR READY CERTIFICATE PROGRAM – SKID STEERS

THIS CERTIFICATE OF COMPLETION COURSE IS DESIGNED TO PROVIDE THE SAFETY KNOWLEDGE AND BASIC INFORMATION, ALONG WITH OVER 30 HRS OF HANDS-ON STRUCTURED CONCENTRATION ON A SPECIFIED TYPE OF HEAVY EQUIPMENT.

UPON COMPLETION OF THIS PROGRAM TRAINEES WILL HAVE THE KNOWLEDGE AND EXPERIENCE TO ENTER THE WORKFORCE AS AN ENTRY LEVEL OPERATOR THAT IS SAFE AND PRODUCTIVE ON DAY ONE OF EMPLOYMENT.

TRAINEES WILL RECEIVE A DIG THIS ACADEMY, CERTIFICATE OF COMPLETION FOR SUCCESSFULLY COMPLETING 40 HOURS OF CONCENTRATED STUDY AND DEMONSTRATING PROFICIENCIES ON MOTOR GRADERS.

TRAINEES WILL ALSO HAVE A DOCUMENTED TRAINING COMPLETION TRANSCRIPT IN NCCER'S REGISTRY

## **PROGRAM REQUIREMENTS:**

SUCCESSFUL COMPLETION OF 3 REQUIRED MODULES  
16 HOURS OF CLASSROOM TRAINING  
24 HOURS OF PRACTICAL TRAINING

### **22102 HEAVY EQUIPMENT SAFETY**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

#### **LEARNING OBJECTIVE #1 – EXPLAIN WORK ZONE SAFETY REQUIREMENTS**

- DESCRIBE SIGNS, BARRIERS AND OTHER DEVICES AND METHODS USED FOR WORK ZONE SAFETY.
- DESCRIBE TRAFFIC CONTROL SAFETY METHODS.

#### **LEARNING OBJECTIVE #2 – EXPLAIN HAZARD COMMUNICATION**

- EXPLAIN THE PURPOSE AND CONTENT OF SAFETY DATA SHEETS (SDS)
- DESCRIBE THE LABELING SYSTEM USED FOR HAZARDOUS MATERIALS.
- DESCRIBE NOISE CONTROL METHODS.

#### **LEARNING OBJECTIVE #3 – IDENTIFY AND DESCRIBE SAFETY PRACTICES ASSOCIATED WITH HEAVY EQUIPMENT OPERATION.**

- LIST JOB SITE AND EQUIPMENT SAFETY REQUIREMENTS
- EXPLAIN THE SAFETY HAZARDS ASSOCIATED WITH WEATHER.
- EXPLAIN SAFETY PRACTICES ASSOCIATED WITH EQUIPMENT MAINTENANCE

#### **LEARNING OBJECTIVE #4 – IDENTIFY SAFETY PRACTICES ASSOCIATED WITH TRENCHES AND EXCAVATIONS.**

- EXPLAIN HOW SOIL COMPOSITION RELATES TO TRENCH FAILURES.
- DESCRIBE THE METHODS USED TO PROTECT WORKERS IN TRENCHES AND EXCAVATIONS.
- IDENTIFY PERSONAL SAFETY HAZARDS RELATED TO DUST AND SOIL.

## **22104 BASIC OPERATIONAL TECHNIQUES**

8 HOURS (6 CLASSROOM, 2 PRACTICAL)

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PRESTART PROCEDURES FOR HEAVY EQUIPMENT

- DESCRIBE HOW TO SAFELY MOUNT A VEHICLE
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR EQUIPMENT, ATTACHMENTS AND TIRES.
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR POWER TRAINS
- DESCRIBE COMMON OPERATOR PRESTART INSPECTION PROCEDURES FOR HYDRAULIC SYSTEMS.

### **LEARNING OBJECTIVE #1**

SUCCESSFUL COMPLETION OF THIS MODULE PREPARES TRAINEES TO:

DESCRIBE THE PROCEDURES FOR STARTING, OPERATING, AND SHUTTING DOWN HEAVY EQUIPMENT

- DESCRIBE HOW TO PERFORM INITIAL CHECKS.
- DESCRIBE BASIC OPERATING PROCEDURES FOR THE VARIOUS ITEMS OF EQUIPMENT.
- EXPLAIN HOW TO PROPERLY SHUT DOWN AND SECURE EQUIPMENT.

## **22212 SKID STEERS**

24 HOURS (4 CLASSROOM, 20 PRACTICAL)

### **LEARNING OBJECTIVE 1 - IDENTIFY AND DESCRIBE THE COMPONENTS OF A SKID STEER.**

- IDENTIFY AND DESCRIBE CHASSIS COMPONENTS
- IDENTIFY AND DESCRIBE SKID STEER CONTROLS
- IDENTIFY AND DESCRIBE SKID STEER INSTRUMENTATION
- IDENTIFY AND DESCRIBE SKID STEER ATTACHMENTS

### **LEARNING OBJECTIVE 2 – DESCRIBE THE PRESTART INSPECTION REQUIREMENTS FOR A SKID STEER**

- DESCRIBE PRESTART INSPECTION PROCEDURES
- DESCRIBE PREVENTATIVE MAINTENANCE REQUIREMENTS

### **LEARNING OBJECTIVE 3 – DESCRIBE THE START UP, SHUT DOWN, AND OPERATING PROCEDURES.**

- STATE SKID STEER-RELATED SAFETY GUIDELINES
- DESCRIBE START UP, WARM UP & SHUT DOWN PROCEDURES
- DESCRIBE BASIC MANEUVERS AND OPERATIONS.
- DESCRIBE RELATED WORK ACTIVITIES.