

Construction Equipment Operator Information Guide

What to Expect on the Structured Interview and Work Sample

August and September 2019

**Jefferson County Commission
Human Resources Department
Employee Selection Division**



Table of Contents

I. INTRODUCTION 3

II. TEST DESCRIPTION 3

III. CONTENT MEASURED BY THE TEST 7

IV. PREPARING FOR THE TEST 9

V. ADDITIONAL INFORMATION FOR TAKING THIS TEST 11

VI. TEST CONTACT INFORMATION 12

VII. REMINDER 12

I. INTRODUCTION

The purpose of this information guide is to help explain what to expect on the upcoming structured interview and work sample (or “test”) for the Jefferson County Construction Equipment Operator position. It will also give you information on how to prepare for the test. This booklet contains information about the interview process, including:

- Introduction
- Interview Description and an Example Question
- Work Sample Information
- Content Measured by the Test
- Preparing for the Interview
- Additional Information for Taking the Test
- Contact Information

You were determined to be minimally qualified for this job by the Personnel Board of Jefferson County, and your name was placed on a list and shared with us here in the Human Resources Department of Jefferson County Commission. This step in the process was considered the primary selection process.

Now you will be participating in the secondary selection process which is a recorded structured interview, along with a work sample. Please remember that the material in this booklet is designed to help prepare you for the test. You will not need the material in this booklet at the time you actually take the test. Therefore, you will not be allowed to carry this booklet into the interview session.

II. TEST DESCRIPTION

The upcoming test for Construction Equipment Operator consists of a structured interview and work sample. The structured interview will take place on Tuesday, August 20, 2019. The work sample will take place outdoors at Camp Bessemer on either September 20, 21, or 27, 2019. More information on the work sample is provided below.

IMPORTANT NOTE: In order to be considered for this position, you must complete both the structured interview and the work sample. If you do not complete both portions of the test, you will not be considered for the Construction Equipment Operator position.

Structured Interview Information

The Structured Interview will be combined with the Heavy Equipment Operator interview. If you are eligible for both positions, you only need to go through the interview process once.

There will be approximately 4 scenarios and associated focusing questions on the interview. The scenarios will be about issues, situations, responsibilities, activities, incidents, etc., which a new Construction Equipment Operator may have to address. You will have time beforehand to prepare your response to some or all parts of the interview. After the preparation period is over, you will be taken to a testing room to begin your interview session. The scenarios and focusing questions will be narrated. You will respond orally to each scenario and all focusing questions. Your response will be recorded. You will have a specified number of minutes to respond to each question. If you complete your response before the allotted time has elapsed you must wait until the time expires and a new scenario is presented.

On the day of the structured interview (August 20, 2019), you will be provided with a test preparation guide that contains some or all of the actual scenarios and focusing questions you will respond to during the interview. You will have a specified number of minutes to read through the scenario and focusing

questions and prepare your responses. The preparation period includes any time you spend reading the interview instructions.

While you are reviewing the scenarios and associated focusing questions, you may make notes for your use during the interview. **Raters will only be evaluating you on what you say during the actual interview session.** They will not evaluate what you have written down in your notes. Only your verbal responses will be scored.

When it is time for your interview to start, you will be escorted to a testing room. You will be the only candidate in the testing room. When the interview starts, you will see information on screen and hear the same information read by a narrator.

The narrator will present each scenario, or question, verbally. After each scenario, the narrator will present a set of focusing questions. The focusing questions will also be presented in writing either on a sheet of paper or on a video monitor. To complete the test, you must verbally respond to each scenario and its associated focusing questions. You may use your notes when providing your response; however, your notes will not be evaluated. Only your verbal response will be assessed.

After each scenario and its associated focusing questions have been presented, you will hear the instruction, "your response period begins now." The time remaining to answer the question will be shown on a video monitor or on a timer. You will then have a specified number of minutes to respond to each scenario and associated focusing questions. At the end of each pre-specified time period, you will hear the command "STOP! Your time is up." Evaluators will ignore any information you provide after the command to stop has been issued. You will not be able to use time from a subsequent scenario to complete a response to an earlier scenario.

Your responses will be recorded. It is important that any audio or video equipment remain in place; therefore, do not touch any of the equipment at any time. You could be disqualified from the interview process for tampering with any of the equipment. If there is a problem with the equipment, please raise your hand and keep it raised until a test monitor enters your room. You are responsible for making sure you speak loudly and clearly enough to be understood by the evaluators reviewing your recording. A normal conversational tone as used in a meeting setting is sufficient.

Remember, there will be approximately eight scenarios and associated focusing questions. Each scenario and focusing question will be read aloud prior to your response time beginning. In your response, be sure to answer all of the focusing questions presented. Keep in mind the following things when responding:

- More detail is better than less detail. That is, more details which show one's knowledge, skills and abilities relevant to the question may improve a candidate's evaluation
- The evaluators will not "read in" to what you say
- Your responses will be evaluated against a defined set of performance standards
- You should answer all focusing questions related to each scenario
- Be sure to talk about what you would do and why

Sample Structured Interview Question

The following question is presented as an example of the form or type of scenarios with which you will be presented. Please note that the content, or subject matter, of the actual interview scenarios will vary and may or may not be similar to that of the questions presented below. The scenarios to which you will respond during the interview will be related to the job for which you are applying.

Example

The department that you work in recently purchased some new equipment. Today, you are able to use the new equipment for the first time. You have been told that the new equipment is similar to what you have had previously. While you are using the new equipment, it stops working and shows an error message that you have never seen before.

Focusing Question(s)

What are the next steps that you would take to determine the meaning of the error message and continue with your work?

Work Sample

Work samples require candidates to demonstrate their ability to perform tasks and behaviors that would be expected on the job. In order to complete the work sample, you will first sign a waiver which outlines any risks associated with operating the equipment. Your signature indicates your acknowledgement of the risk and your consent to participate in the work sample. If you are unwilling to sign the waiver, you will not be permitted to participate in the work sample. The work sample/simulation for the Construction Equipment Operator examination will consist of one or two exercises and you will have a specified amount of time to complete each part of the work sample.

You will have the option to complete the work sample on both the backhoe and track hoe if you would like to be considered for the Construction Equipment Operator position in Environmental Service and Roads and Transportation at Jefferson County Commission. If you would like to only be considered for a Construction Equipment Operator position in Roads and Transportation you will only need to test on the backhoe. If you would like to only be considered for a Construction Equipment Operator position in Environmental Service, you will only need to test on the track hoe.

Please note that the work sample will **NOT** take place at the Personnel Board of Jefferson County's Testing Facility. The work sample will take place at Camp Bessemer. The address is located in Section VII at the end of this guide.

On the day of the work sample, you will be required to bring a valid Commercial Driver License (CDL). Jefferson County Employee Selection staff will verify that your Commercial Driver License is valid. If you do not have a valid CDL, you will not be allowed to complete the work sample component of the test. Therefore, you will not be considered for the position of Construction Equipment Operator in Jefferson County.

For the Construction Equipment Operator work sample, you will be asked to complete one or two tasks:

TASK ONE: Operating a Backhoe (for candidates wishing to be considered for a position in the Roads & Transportation department):

Candidates will be given 15 minutes to start a backhoe and safely move it a short distance (approximately 20 feet). Then, you will be asked to excavate three buckets of dirt within a coned off 10 foot by 15 foot area, and deposit each bucket of dirt into the bed of a dump truck.

Live assessors will guide you through the work sample, providing you with instructions and telling you when to begin. For the safety of yourself and others, it is important that you follow all instructions given to you by the on-site staff. A photo of the backhoe in which candidates will operate is shown below:



and/or

TASK TWO: Operating a Track hoe (for candidates wishing to be considered for a position in the Environmental Services Department):

Candidates will be given 15 minutes to start a track hoe and safely move it a short distance (approximately 20 feet). Then, you will be asked to excavate three buckets of dirt within a coned off 8 foot by 13 foot area, and deposit each bucket of dirt into the bed of a dump truck.

Live assessors will guide you through the work sample, providing you with instructions and telling you when to begin. For the safety of yourself and others, it is important that you follow all instructions given to you by the on-site staff. A photo of the track hoe in which candidates will operate is shown below:



Optional Open House

Jefferson County will hold open houses before the work sample during which you will be invited to come and look at the equipment with which you will be completing the work sample. At the open house, you will be able to walk around outside of the equipment and look at the controls. **However, you will not be permitted to operate the truck at this time.** Jefferson County Employee Selection staff will also be available to answer any questions you might have. These sessions are provided for you in order to gain familiarity with the equipment to help you succeed on the test. The dates and times of the open house sessions are as follows:

Tuesday, September 17	6am-10am	Camp Bessemer
Wednesday, September 18	3pm-7pm	Camp Bessemer

You will be able to sign up to attend an open house at the structured interview test administration.

III. CONTENT MEASURED BY THE TEST

An analysis of Construction Equipment Operator job was conducted prior to developing the structured interview and work sample. Employees who work in this position, and their supervisors, participated in this process. When the job analysis study was completed, the results showed that a new employee in the Construction Equipment Operator position may perform several of the duties listed below, including:

- Backfills, excavates, spreads, and scrapes specified parts of construction or maintenance projects using heavy or construction equipment.
- Loads, unloads, lifts, and places various materials (e.g., dirt, biosolids, pipes, brush, etc.) using heavy or construction equipment in order to complete construction, cleanup, or maintenance projects.
- Cleans, clears, and prepares roads, ditches, sewer lines and land using heavy or construction equipment for construction or property maintenance purposes.
- Performs preventative maintenance and basic repairs on heavy or construction equipment (e.g., checking fluids, changing parts, etc.) in order to maintain heavy or construction equipment operations.
- Promotes safe work practices (e.g., setting up traffic work zones, wearing safety gear, obeying applicable traffic laws, using outriggers, etc.) to prevent accidents and/or injuries to oneself, others, or property/equipment.
- Operates as a field supervisor by training, supervising, and reviewing work completed by a crew at work sites or designated routes to ensure work is completed appropriately.
- Communicates with members of the public, supervisors, and subordinates using verbal, and written correspondence in order to complete heavy or construction equipment operator job duties.

The study of the job also showed that a number of knowledge, skills, and abilities were very important and needed from the moment a person becomes a (that is, before receiving any training for Construction Equipment Operator job.). These knowledge, skills, and abilities include:

- Knowledge of the appropriate uses and functions of heavy or construction equipment (e.g., what type of equipment can be used where).
- Knowledge of hand tools, including their designs and uses.

- Knowledge of traffic laws and regulations involved with heavy or construction equipment operations and transportation.
- Knowledge of the physical properties of materials used in street and road paving and repairs, such as macadam aggregate road mix, bitumen, sealcoat, slurry seals, cold mix, and hot mix.
- Knowledge of filler materials such as chert, slag, red rock, dirt, topsoil, gravel, etc. used in construction or other applications.
- Knowledge of the proper type of fuel (e.g., diesel, unleaded, propane, fuel/oil mix, etc.) needed for various equipment.
- Knowledge of utility markings (e.g., company color codes and their meaning) as used to identify types of utility lines.
- Knowledge of basic preventive maintenance (e.g., check fuels, fluids, oil levels) for cars and light trucks.
- Knowledge of basic preventive maintenance (e.g., check fuels, fluids, oil levels) for heavy duty trucks, vehicles, and equipment (i.e., fire apparatus, tractors and backhoes).
- The ability to listen to and understand information and ideas presented through spoken words and sentences.
- The ability to orally communicate information and ideas so others will understand.
- The ability to read and understand information and ideas presented in writing.
- The ability to communicate information and ideas in writing to a variety of audiences in a clear, concise, and organized manner, free from spelling, grammar, and punctuation errors.
- The ability to see details at a distance.
- The ability to see details at close range (within a few feet of the observer).
- Skill in using basic mathematics (e.g., addition, subtraction, multiplication, division) to solve problems.
- Skill in operating heavy or construction equipment such as front-end loaders, brush trucks, skid-loaders, power washers, etc.
- Skill in maintaining a positive working relationship through comfortable and appropriate interpersonal interaction.
- The ability to manage and resolve conflicts with coworkers and/or customers.
- The ability to stand up for extended periods of time.
- The ability to work in an environment that requires strict adherence to instructions, standards, and/or procedures.
- The ability to read and understand information presented in diagrams, blueprints, maps, specifications, or other pictorial displays.
- The ability to teach or train individuals with regard to new information, procedures, processes, and/or equipment.
- The ability to determine safe operation of equipment based on given constraints or conditions.
- The ability to climb (e.g., ladders, steps).
- Skill in maintaining records.
- Knowledge of safety procedures when working in and around traffic.
- Knowledge of occupational hazards and necessary safety precautions when working near utility lines (e.g., power, gas, water, etc.).
- Skill in using heavy or construction equipment to dig ditches, trenches, and ponds according to grade, depth, slope, and distance specifications.
- Skill in using heavy or construction equipment to load and unload material weighing up to several tons (e.g., branches, dirt, etc.) from truck beds or the ground.

- Ability to read and interpret grade stakes before digging, grading or excavating with heavy or construction equipment.
- Ability to level and grade road shoulders, bridge approaches, footing, curbs and gutters according to specifications using heavy and construction equipment.
- The ability to operate a transit to determine grades and elevations.

The structured interview and work sample will give you an opportunity to demonstrate many of the knowledge areas, skills, and abilities you have just read.

As discussed, the first part of the test for Construction Equipment Operator is a structured interview that will take place on Tuesday, August 20, 2019 at the Personnel Board of Jefferson County, involving reading and listening to questions, taking notes to prepare, and providing verbal responses. The second part of the test for Construction Equipment Operator is a work sample and will be held on September 20, 21, and 27 of 2019. **You will not have to attend both work sample dates**, you only need to sign up for one date on **EITHER** September 20, September 21 **OR** September 27 and complete the work sample on that date. The work sample will take place at Camp Bessemer in Jefferson County, Alabama. In addition to this Guide, you should have received invitations for the structured interview and the work sample.

If you require special testing accommodation to participate in this test, you should notify Jefferson County Human Resources immediately using the contact information at the end of this guide.

In the remainder of this "What to Expect" Booklet, you will read about ways to prepare to take the test, what to bring to the test, and whom to contact if you have a question.

IV. PREPARING FOR THE TEST

A. General information on "What to do before the test":

Here are some suggestions for what to do before the test. This includes getting to the testing place on time and with the proper things that you will need to take the test.

- 1) Be well rested. Get a good night's sleep for several nights in a row before the test.
- 2) Allow plenty of time to get to the test. If you are rushed and late, you will be upset when you get there. Plan to arrive at least 15-20 minutes before earlier than the scheduled time for check-in. Due to the nature of the test and the number of candidates that must be processed, NO exceptions will be made to accommodate individuals arriving more than 15 minutes after their scheduled check-in time.
- 3) Come in to the test dressed comfortably. You may be there for up to a few hours.
- 4) Do NOT bring any electronic communication devices (e.g., cell phones, laptops, tablets, smart watches, etc.) with you to the test. If you bring a cell phone or any other electronic communication device, you will be asked to return it to your car. Jefferson County will not confiscate them or "hold" them for you during the interview. You must comply with this rule in order to be admitted and you will still be subject to the check-in deadline. Using any communication device after you have checked into the test site will be considered a violation of test security and you will be disqualified. ALL electronic communication devices are prohibited from the testing facility (e.g., cell phones, tablets, smart watches, cameras, etc.).
 - a) If any device is seen, heard, or used during the testing process it will be considered a violation of test security and you will be disqualified and dismissed from the testing process.
 - b) You are allowed to bring reading materials, such as magazines or books not related to the position or test.

- 5) Do not bring any of your study or reference materials to the test. This includes any notes, manuals, source documents, reference materials, or study materials that you have used or created to prepare for the test.
- 6) Do not bring this booklet to the test location. You will not be permitted to bring it in. All the materials you need for the test will be given to you at the test.
- 7) You should read this booklet to get comfortable with the test process.
- 8) You should read this booklet to understand which job duties, knowledge, and abilities are important for Construction Equipment Operator job.
- 9) You should bring the confirmation email that you have received from Jefferson County to the testing location. The confirmation email lists the name of the test (i.e., Construction Equipment Operator), the place you should go to in order to take the test, and the time, day, and date of the test.
- 10) You must bring valid PHOTO IDENTIFICATION (i.e., Valid Driver's License, Valid Nondriver ID, Valid Photo Voter ID Card, Valid State Issued ID [Alabama or any other state], Valid Federal issued ID, Valid US passport, Valid Employee ID from Federal Government, State, County, Municipality, Board or other entity of the state, Valid student or employee ID issued by a state or private institution of higher learning [including postgraduate technical or professional schools], Valid Military ID, or Valid Tribal ID). You will not be allowed to enter the test location nor take the test without your photo identification.
- 11) You must bring a valid Commercial Driver's License to the work sample in addition to the valid photo identification mentioned above.

B. General information on "What to do during the test":

- 1) Some people are nervous when they take tests. Up to a point, there is nothing wrong with that. Whenever you are going to do something important, it is good to feel a bit nervous. It is nature's way of getting you warmed up and ready, like an actress or actor about to go out on stage for a performance.
- 2) However, it is not good to be so nervous that all you can think about is how nervous you are. You need to keep your mind on the test questions, and not on your feelings. To improve your ability to do that, you will find useful ideas in this booklet on how to prepare for the test and what to expect. **The more prepared you are, the more comfortable and less nervous you will feel during the test.**
- 3) Several things that you can do that will make you feel more comfortable taking the test including: following the guidelines presented in this booklet on what to expect on the test and how to prepare for the test; becoming familiar with what the structured interview process will be like (including reading the sample question); becoming familiar with what the work sample process will be like and, understanding the test instructions.
- 4) You must not leave the room in which you are taking the interview unless you are told that you may do so. Once the test begins, you must remain in your room. There will be Test Monitors nearby at all times. They will be available to assist you if you have any problems.
- 5) You will be given the opportunity to use the restroom, stand, and stretch throughout the time you are at the testing location. You should use these opportunities as necessary. Once the test begins, you will not be able to stop the process to use the rest room.
- 6) You are not to open any test material or instructions or begin working on the test until you are instructed to do so.
- 7) During the preparation and testing period, you are not to use any materials other than what has been provided during the testing session.
- 8) Candidates making any disturbances or caught cheating will be disqualified from the test.
- 9) Test Monitors will not interpret test questions for you. However, they can assist you with any problems, such as mechanical difficulties or equipment breakdowns.

- 10) There will be an audio recorder in the room in which you take the test. The audio recorder will be used to record your spoken responses to the test.
- 11) You should speak in a normal speaking voice when you are required to give spoken responses to questions. It is not necessary to shout, but do not talk in a whisper either. Simply speak in a normal voice.
- 12) On the day of the test, you will be provided with a test preparation guide to help you prepare to respond to the structured interview questions.

V. ADDITIONAL INFORMATION FOR TAKING THIS TEST

The following information will help you prepare to take the test.

A. What To Bring To the Test

Please remember to bring to the test the confirmation email that you received from Jefferson County.

You must bring a PHOTO IDENTIFICATION to the test location. This might be a valid driver's license, a military identification card, a passport, etc. You only need to have one form of photo identification. You will **not be allowed** to enter the test location or take the test without your photo identification. You will need to bring your valid Commercial Driver's License in addition to valid photo identification to the work sample.

You should plan on bringing your own beverages and food to snack on during the day. You may be onsite for up to a few hours. Once on the test site, you will **NOT** be permitted to leave to get food or drinks. You should also bring something to read such as a book or magazine. The reading material should be for pleasure only. You **may not** bring outside test-related materials into the test. All written materials needed for taking the test will be provided. You do not need to bring writing utensils with you to the test—they will be provided to you.

B. What Not To Bring To the Test

Do **NOT** bring this Booklet to the test location. You will not be permitted to bring it in the testing room.

Do **NOT** bring any of your study materials to the test. This includes notes, manuals, and other study materials.

Do **NOT** bring any electronic communication devices (e.g., cell phones, laptops, tablets, smart watches, cameras, etc.) with you to the interview.

C. Effective Note Taking

The structured interview asks about issues, situations, responsibilities, activities, incidents, etc. which a newly hired Construction Equipment Operator may have to address. On the day of the test, you will be given a chance to look over the questions that you will be asked on the test before you start the interview. You will have a chance to think about your answers for the test, and you should take notes to help guide your responses. Good notes contain the essential or important details. The notes do not need to be written in complete sentences. You are the only one who needs to be able to read and understand your notes. Your notes will not be graded. Your notes will be collected at the end of the interview.

Why Take Notes?

There are several good reasons to take notes during the preparation phase of the test process.

- In order to take notes, you are forced to carefully consider the information being given.
- Taking notes can help you remember. Notes you take in your own words are easier to understand and remember.

- Writing down notes may actually make the information clearer to you.
- The notes will help you respond to the interview scenarios and focusing questions.
- Having notes can help you feel less anxious or nervous while taking the test.

VI. TEST CONTACT INFORMATION

General Questions about the Test

If you have questions about the test administration, you may contact the Performance Assessment Division at (205) 214-5518 or careers@jccal.org. Jefferson County employees are not allowed to divulge, and do not have access to, specific information about the content of the test.

Reasonable Accommodation

If you would like to request special testing accommodation or have any questions concerning the test site or testing conditions, please contact Tonya Dawson at 205-716-2687 or dawsont@jccal.org.

VII. REMINDER

You must complete both the structured interview and the work sample components of the Construction Equipment Operator test in order to be considered for the position. If you only complete one portion of the test, your test will be considered incomplete and your test will not be scored. Below are the dates and addresses for the Construction Equipment Operator test administration:

IMPORTANT DATES

August 20, 2019: Structured Interview
The Personnel Board of Jefferson County 2 nd floor Testing Facility 2121 Reverend Abraham Woods Jr Blvd. Birmingham, AL 35203

September 17, 2018: Open House (6am-10am)
Camp Bessemer 3295 King St, Bessemer, AL 35023
September 18, 2018: Open House (3pm-7pm)
Camp Bessemer 3295 King St, Bessemer, AL 35023

September 20, 21, and 27 Work Sample¹
Camp Bessemer 3295 King St, Bessemer, AL 35023

¹You will only need to attend the work sample on one, not both, of the dates listed. You will be notified in the case of test cancellation due to inclement weather.