JONES COUNTY CAREER-TECHNICAL CENTER

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March 31, 2020

Dear Parents and Career Tech Students:

From the Faculty, Staff and Administration of the Jones County Career Technical Center, it is our intent to provide enrichment activities for our students and support for our parents during these difficult times.

The following enrichment activities will allow students to review the instruction that they already have received this year.

You will find questions with answers for you to study and review. There are no assignments to be returned to school.

If the JCCTC can be of any assistance to our students and parents with the enrichment activities, please feel free to call us at 601-425-2378 between the hours of 9:00 a.m. and 1:00 p.m. or contact the instructor by email. Email addresses are located under the program name on our webpage.

Sincerely,

Rex Buckhaults

Rex Buckhaults
Director, JCCTC

Module 00101-15 Exam Basic Safety (Construction Site Safety Orientation)

1. Companies with strong safety cultures usually have lower _____.

a. turnover
b. productivity
c. wages
d. morale

2. Which of these is a true statement regarding safety?

a. Safety is a learned behavior and attitude.
b. Safety consciousness comes naturally to most individuals.
c. Safety primarily depends on workers in the field.
d. Safety does not normally require training.

3. Poor lighting, excessive noise, and inadequate guards for moving parts are examples of _____.

a. acceptable risks
b. unsafe conditions
c. unavoidable hazards
d. unsafe acts

4. The activity that consists of breaking a job into its component tasks and then analyzing each step for potential hazards is called a _____.

a. job safety analysis
b. hazardous incident simulation
c. safety breakdown structure
d. safety pre-assessment

5. A measure of the probability, consequences, and exposure related to an event is referred to as _____.

a. safety
b. evaluation
c. risk
d. hazard

Module 00102-15 Exam Introduction to Construction Math

1. What is the place value of 2 in the number 123,456?

a. hundreds
b. thousands
c. ten thousands
d. hundred thousands

2. Forty-five thousand, six hundred twelve pipe fittings have been ordered for a large project. How would you write this number as a whole number using digits?

a. 4,561
b. 4,562
c. 45,612
d. 450,612

3. Add the following numbers together: 811, 901, 88, and 5. The sum is _____.

a. 1,705
b. 1,775
c. 1,795
d. 1,805

4. Your job as a carpenter pays $20/hour and you worked 40 hours last week. The taxes withheld from your wages were $83 federal tax and $19 state tax. Your total check is _____.

a. $698
b. $720
c. $810
d. $912

5. A package contains 12 electrical locks, each with a unique key. A package is delivered to 16 job site superintendents. How many unique keys will result from the distribution?

a. 192
b. 180
c. 48
d. 28

Module 00103-15 Exam Introduction to Hand Tools

1. Another name for a machinist's hammer is _____.

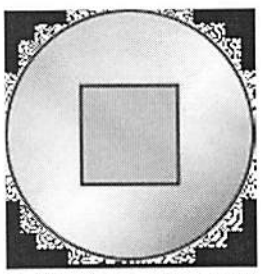
a. ball-peen hammer
b. claw hammer
c. veneer hammer
d. sledgehammer

2. A heavy-duty tool used to drive posts or other large stakes is a _____.

a. mallet
b. sledgehammer
c. bell-faced hammer
d. ball-peen hammer

3. The proper angle for the edge of a cold chisel is _____.

a. 90 degrees
b. 60 degrees
c. 45 degrees
d. 30 degrees



4. The type of screw shown in the figure above is a(n) _____.

a. Phillips head
b. Torx®
c. Allen®
d. Robertson®

5. Which of the following screws comes to a relatively sharp point at the base of its drive socket?

a. Reed and Prince
b. Torx®
c. Allen®
d. Slotted

Module 00104-15 Exam Introduction to Power Tools

1. When using power tools, never engage the _____.

a. locking spring
b. booster
c. bit shank
d. trigger lock

2. Before replacing parts such as bits, blades, or discs on any tool, you must _____.

a. polish it with a fine steel wool
b. recharge the tool's battery
c. disconnect the power source
d. inspect them for cracks

3. Most hammer drills will not hammer until pressure is _____.

a. released from the powder charge
b. reached in the hydraulic cylinder
c. detected at the trigger lock
d. applied to the drill bit

4. A pneumatic drill is commonly used _____.

a. in areas where noise is a problem
b. to supply compressed air to de-burr pipes
c. when there is no source of electricity
d. for intricate detail work

5. Never use a circular saw that does not have an upper blade guard because the _____.

a. trigger lock will not work properly
b. saw will not cut cleanly
c. guard protects you from touching the blade
d. saw kerf will be too wide

Module 00105-15 Exam Introduction to Construction Drawings

1. Plans used for work that has to do with construction in or on the earth are called _____.

a. civil plans
b. architectural renderings
c. structural foundations
d. exterior views

2. The material to be used for the walls would be found in the _____.

a. plumbing plan
b. structural plan
c. civil plan
d. mechanical plan

3. What information in a drawing's title block identifies the project?

a. Sheet title
b. Company logo
c. Drawing number
d. Revision block

4. The information needed to identify lines and other symbols on a construction drawing can be found in the _____.
a. index
b. title block
c. legend
d. scale

5. Break lines are used to show that _____.

a. an object will appear in a separate drawing
b. an object is hidden
c. only part of an object is represented to save space
d. an object is not included on the cutting line view

Module 00106-15 Exam Introduction to Basic Rigging

1. The maximum load weight that a sling is designed to carry is the _____.

a. top weight
b. carry weight
c. rated capacity
d. load capacity

2. Most alloy steel chain slings can be used in temperatures up to _____.

a. 200°F (93°C)
b. 300°F (149°C)
c. 400°F (204°C)
d. 500°F (260°C)

3. When a tattle-tail has been pulled into the jacket of a synthetic sling, the sling most likely has been _____.

a. chemically damaged
b. overheated
c. overloaded
d. crushed

4. If a wire rope sling appears to be damaged, the decision to keep it in service must be made by a _____.

a. site supervisor
b. district manager
c. competent person
d. crane operator

5. Because of the need for increased toughness, shackles for most overhead lifting are made from _____.

a. cast steel
b. forged steel
c. drop iron
d. tempered aluminum

Module 00107-15 Exam Basic Communication Skills

1. In the study of communication, noise is best defined as _____.

a. people interrupting someone who is thinking
b. anything that interferes with the message being heard or understood
c. thoughts that distract the listener
d. discussing things that are off the main topic

2. Folding your arms in front of you makes it seem as if you are _____.

a. warm and friendly
b. very angry
c. distant and unwilling to talk
d. the group leader

3. If someone does not understand what a speaker is saying, he or she should _____.

a. ignore that part of the conversation
b. try to figure it out on his or her own
c. ask other people what they think the speaker means
d. ask the speaker questions for clarification

4. When listening to instructions, the best way for listeners to make sure they get all the information is to _____.

a. take notes and compare them with other co-workers' notes
b. read a book about the topic later on
c. ask questions, but wait until the person has stopped talking
d. take notes, ask questions, and repeat a summary of the instructions

5. An important attribute of an effective speaker is the ability to _____.

a. inject humor on the job site with practical jokes
b. explain and simplify complex topics
c. conduct multiple conversations with workers
d. make others feel too inferior to speak openly

Module 00108-15 Exam Basic Employability Skills

1. A company's documented philosophy is called its _____.

a. business plan
b. administrative structure
c. organizational structure
d. mission statement

2. The time to learn about a potential employer is _____.

a. before the application is submitted
b. before the interview
c. during the interview
d. during the first week of employment

3. When preparing a resume, you should _____.

a. use a font that is very creative and expressive
b. format the information chronologically
c. avoid any use of bulleted lists
d. not mention any certifications until an interview begins

4. During a job search, it is a good practice to _____.

a. apply for positions that require less skill to better your chances
b. apply for positions that require greater skills to show your potential
c. avoid any jobs that will likely require additional learning
d. look for jobs that match your skills and experience

5. Before employment begins, candidates for construction jobs must often _____.

a. pass a rescuer's and first aid test
b. take and pass a drug test
c. pass a driving test
d. be capable of lifting their own weight

Module 00109-15 Exam Introduction to Material Handling

1. Before attempting to lift any material, _____.

a. look for any protruding nails, wires, or sharp edges
b. use a safety harness
c. ask your supervisor for help
d. ensure the stacking ratio is no greater than 3:1

2. Before attempting to lower an overhead load, _____.

a. put on a back support belt
b. shrink wrap the load
c. set up a fall zone
d. size up the load

3. What is the proper procedure to lift objects?

a. Bend over with your knees straight, feet together, and then lift.
b. Lift with your back, keep your legs straight, and keep your arms up.
c. Lift with your legs, keep your back straight, and keep your head up.
d. Lift with your arms, keep your legs straight, and keep your head up.

4. When stacking bags of material that are the same width, step back and cross key the bags _____.

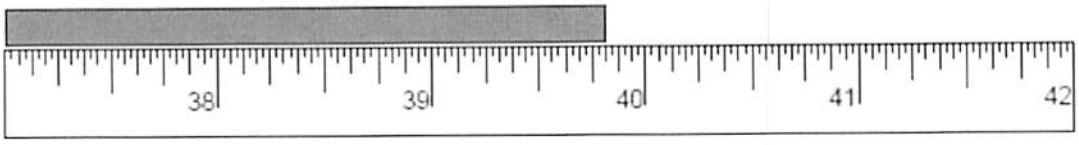
a. in each tier above seven feet
b. until the stack reaches four feet
c. every 10 bags high
d. all the way to the top of the pile

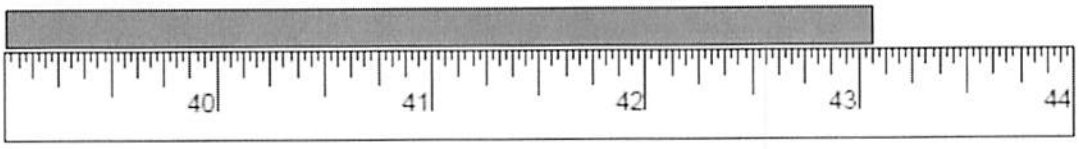
5. Never stack or store materials _____.

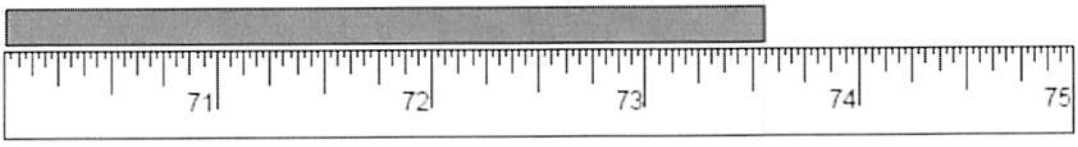
a. in cabinets
b. on scaffolds
c. outdoors
d. on pallets

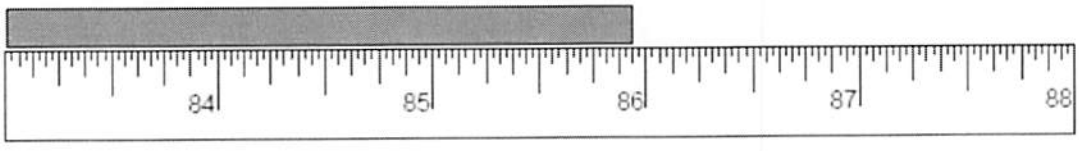
Reading a Tape Measure

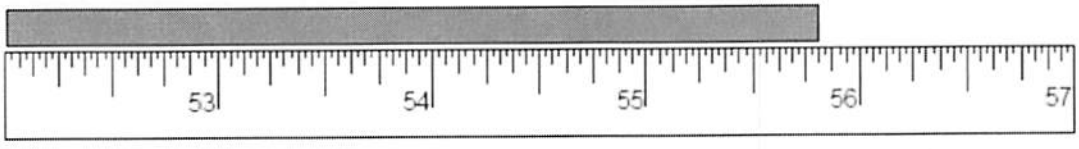
How many Feet and Inche

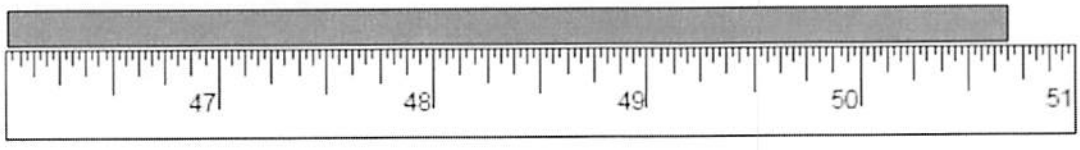


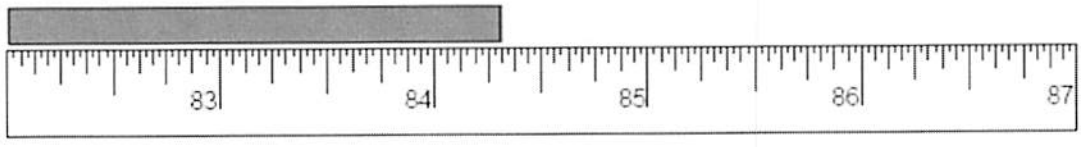


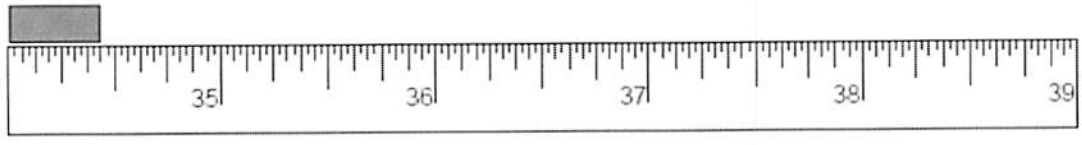












Module 00101-15 Exam Basic Safety (Construction Site Safety Orientation) 2nd Year Welding

1. a
Page Ref: Sec. Ref. 1.0.0
Objective: 1a
2. a
Page Ref: Sec. Ref. 1.0.0
Objective: 1a
3. b
Page Ref: Sec. Ref. 1.2.8
Objective: 1b
4. a
Page Ref: Sec. Ref. 1.3.2
Objective: 1c
5. c
Page Ref: Sec. Ref. 1.3.3
Objective: 1c

Module 00102-15 Exam Introduction to Construction Math

1. c
Page Ref: Sec. Ref. 1.1.0
Objective: 1a
2. c
Page Ref: Sec. Ref. 1.1.0
Objective: 1a
3. d
Page Ref: Sec. Ref. 1.2.0
Objective: 1b
4. a
Page Ref: Sec. Ref. 1.2.0
Objective: 1b
5. a
Page Ref: Sec. Ref. 1.3.0
Objective: 1c

Core Curriculum Math Calculations

Question 3:

Add the following numbers together: 811, 901, 88, and 5. The sum is _____.

Calculation:

811 + 901 + 88 + 5 = 1,805

Question 4:

Your job as a carpenter pays $20/hour and you worked 40 hours last week. The taxes withheld from your wages were $83 federal tax and $19 state tax. Your total check is _____.

Calculation:

$20 × 40 = $800; $800 – ($83 + $19) = $698

Question 5:

A package containing 12 electrical locks, each with a unique key, must be delivered to 16 job site superintendents. How many unique keys will result from the distribution?

Calculation:

12 × 16 = 192

Module 00103-15 Exam Introduction to Hand Tools

1. a
Page Ref: Sec. Ref. 1.1.2
Objective: 1a
2. b
Page Ref: Sec. Ref. 1.1.3
Objective: 1a
3. b
Page Ref: Sec. Ref. 1.2.1
Objective: 1b
4. d
Page Ref: Sec. Ref. 1.3.0
Objective: 1c
5. a
Page Ref: Sec. Ref. 1.3.0
Objective: 1c

Module 00104-15 Exam Introduction to Power Tools

1. d
Page Ref: Sec. Ref. 1.0.0
Objective: 1
2. c
Page Ref: Sec. Ref. 1.0.0
Objective: 1
3. d
Page Ref: Sec. Ref. 1.2.1
Objective: 1b
4. c
Page Ref: Sec. Ref. 1.3.1
Objective: 1c
5. c
Page Ref: Sec. Ref. 2.1.0
Objective: 2a

Module 00105-15 Exam Introduction to Construction Drawings

1. a
Page Ref: Sec. Ref. 1.1.1
Objective: 1a
2. b
Page Ref: Sec. Ref. 1.1.3
Objective: 1a
3. a
Page Ref: Sec. Ref. 1.2.1
Objective: 1b
4. c
Page Ref: Sec. Ref. 1.2.5
Objective: 1b
5. c
Page Ref: Sec. Ref. 1.3.1
Objective: 1c

Module 00106-15 Exam Introduction to Basic Rigging

1. c
Page Ref: Sec. Ref. 1.1.1
Objective: 1a
2. d
Page Ref: Sec. Ref. 1.1.3
Objective: 1a
3. c
Page Ref: Sec. Ref. 1.2.1
Objective: 1b
4. c
Page Ref: Sec. Ref. 1.2.3
Objective: 1b
5. b
Page Ref: Sec. Ref. 1.3.1
Objective: 1c

Module 00107-15 Exam Basic Communication Skills

1. b
Page Ref: Sec. Ref. 1.1.0
Objective: 1a
2. c
Page Ref: Sec. Ref. 1.1.1
Objective: 1a
3. d
Page Ref: Sec. Ref. 1.2.0
Objective: 1b
4. d
Page Ref: Sec. Ref. 1.2.0
Objective: 1b
5. b
Page Ref: Sec. Ref. 1.3.0
Objective: 1c

Module 00108-15 Exam Basic Employability Skills

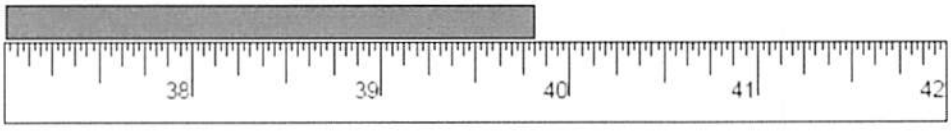
1. d
Page Ref: Sec. Ref. 1.1.0
Objective: 1a
2. a
Page Ref: Sec. Ref. 1.1.0
Objective: 1a
3. b
Page Ref: Sec. Ref. 1.2.0
Objective: 1b
4. d
Page Ref: Sec. Ref. 1.2.0
Objective: 1b
5. b
Page Ref: Sec. Ref. 1.2.0
Objective: 1b

Module 00109-15 Exam Introduction to Material Handling

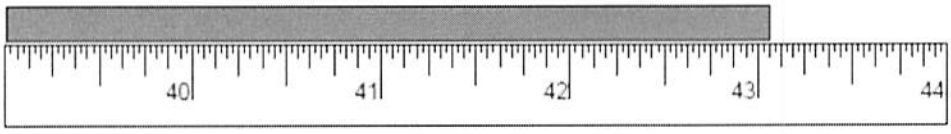
1. a
Page Ref: Sec. Ref. 1.1.1
Objective: 1a
2. d
Page Ref: Sec. Ref. 1.1.3
Objective: 1a
3. c
Page Ref: Sec. Ref. 1.1.3
Objective: 1a
4. c
Page Ref: Sec. Ref. 1.2.1
Objective: 1b
5. b
Page Ref: Sec. Ref. 1.2.2
Objective: 1b

Reading a Tape Measure

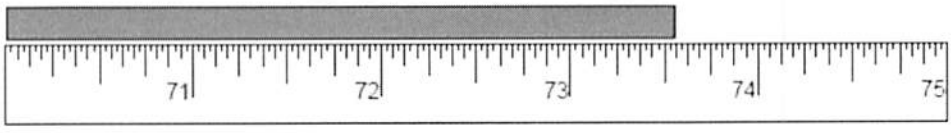
How many Feet and Inches ?



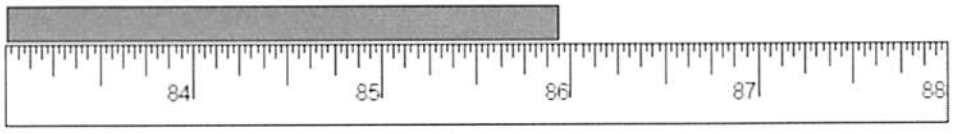
3 feet - $3\frac{13}{16}$ in



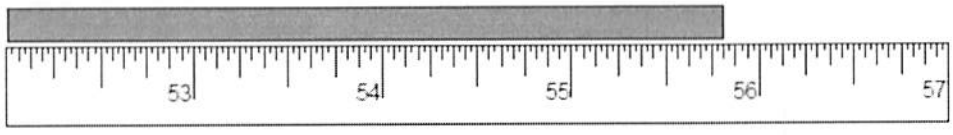
3 feet - $7\frac{1}{16}$ in



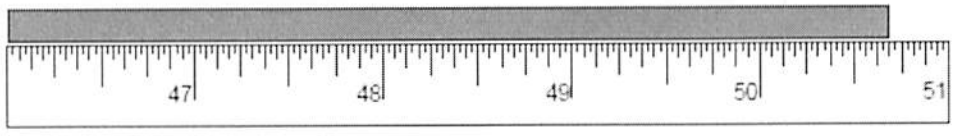
6 feet - $1\frac{9}{16}$ in



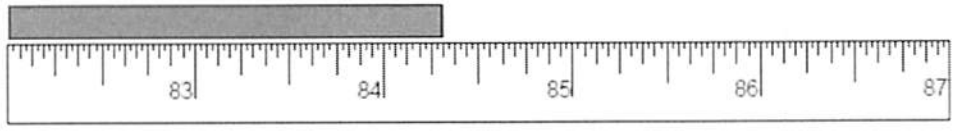
7 feet - $1\frac{15}{16}$ in



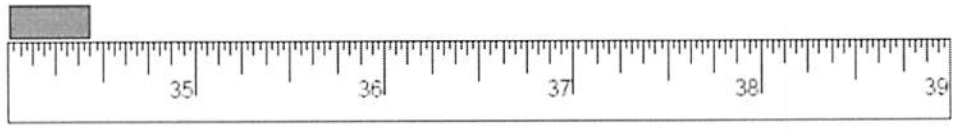
4 feet - $7\frac{13}{16}$ in



4 feet - $2\frac{11}{16}$ in



7 feet - $\frac{5}{16}$ in



2 feet - $10\frac{7}{16}$ in