

INFORMATION ABOUT THE  
GEORGIA POWER COMPANY

**Skills and Knowledge Assessment Test (Section V) (SKAT)  
Mechanic / Machinist**

**Four Tests will be administered:**

**1. Basic Machining/Mechanics Test**

Different types of metal

Lathe/machining

Welding

Types

Pressure settings

Equipment specifications

Safety

Oxygen/acetylene

Types

Pressure settings

Equipment specifications

Safety

**2. Tools and Precision Measurement Test**

Basic Tools

Types

Applications

Precision measuring tools

Standard scaled

Vernier scaled

**3. Tool Identification**

Basic hand tools

**4. Rule Reading**

Reading standard measurements

Making measurement calculations

Note: no calculators allowed  
all tests are timed

**Skills, Knowledge, and Abilities Test (SKAT - Mechanical)**

## **Information Sheet and Sample Questions**

The following job classifications require SKAT - Mechanical:

Apprentice Machinist

Apprentice Mechanic

### **Mechanical Test Sections**

- Knowledge of machining and mechanics including:
  - Identifying and defining types of metals
  - Lathe and machining
  - Welding
    - Types
    - Pressure settings
    - Equipment specifications
    - Safety
  - Oxygen/Acetylene
    - Types
    - Pressure settings
    - Equipment specifications
    - Safety

### **Tools and Precision Measurement Equipment**

- Basic tools
  - Types of tools and their applications
- Precision measuring tools
  - Standard and Vernier scaled

### **Hand Tools and Mechanical Devices**

- Identify basic hand tools

### **Rule reading and measurement computation**

- Reading standard measurements
- Making measurement calculations

Please note: All tests are timed

No calculators are allowed

## MACHINIST AND MECHANIC SAMPLE QUESTIONS

Listed below are sample questions that reflect the type of questions that you may see on the SKAT Mechanical test. These questions consist of mechanic/machinist knowledge including different types of metal, lathes and machining, welding and oxygen/acetylene (types, pressure settings, equipment specifications, and safety).

### Sample 1

A machinist's vise is used mostly in

- a. metalworking
- b. woodworking
- c. blacksmithing
- d. pipe fitting

For Sample 1, the correct answer is "a". Therefore, alternative "a" has been circled.

### Sample 2

A drill used for drilling stainless steel should be turned **slower** than one used to drill brass.

The correct answer for Sample 2 is "slower" so this answer has been written in the blank.

### Sample 3

A file with no cutting teeth on its edges is called a/an

- a. edge file
- b. blunt file
- c. safe edge file
- d. mill file

### Sample 4

A/an **tap** is a form of cutting tool used to cut threads on the inside of a hole.

For Sample 3, the correct answer is "c". Therefore, alternative "c" has been circled. The correct answer for Sample 4 is "tap" so this answer has been written in the blank.

## TOOLS AND PRECISION MEASUREMENT SAMPLE QUESTIONS

Listed below are sample questions that reflect the type of questions that you may see on the SKAT Mechanical test. These questions consist of instrument knowledge including basic tool types/ applications and standard and vernier scaled precision measuring tools.

### Sample 1

Pliers are classified by their:

- a. length and width
- b. cutting and non-cutting ability
- c. handle and nose shapes
- d. nose shape and intended work

For sample 1, the correct answer is “d”. Therefore, alternative “d” has been circled.

### Sample 2

Files which have one row of teeth are called single –cut files.

The correct answer for Sample 2 is “single” so this answer has been written in the blank.

### Sample 3

A good tool in electrical work for tightening bushings and locknuts and gripping conduit is a pair of

- a. long nose pliers
- b. diagonal pliers
- c. locking joint pliers
- d. electrician’s pliers

### Sample 4

When measurements are made with a rule, hold the rule with its edge against the surface of the object.

For Sample 3, the correct answer is “c”. Therefore, alternative “c” has been circled. The correct answer for Sample 4 is “edge” so this answer has been written in the blank.

## HAND TOOLS AND MECHANICAL DEVICES SAMPLE QUESTIONS

The sample questions below consist of basic hand tools and devices used in construction, maintenance, and repair activities. There are pictures of various hand tools and mechanical devices in this test. You are to *identify the correct name or appropriate use* for each tool or device shown.

For example, look at the picture below. The tool in the picture is a *hand saw*. Therefore, alternative "C" has been darkened as the correct answer.



### Sample 1

This is a:

- (A) hack saw
- (B) miter saw
- (C) a hand saw
- (D) rip saw
- (E) none of the above

### Sample 2



This is a:

- (A) tire hammer
- (B) sledge hammer
- (C) rock-breaking hammer
- (D) ball pein hammer
- (E) none of the above

### Sample 3



This tool is used to:

- (A) smooth surfaces
- (B) measure distances
- (C) draw straight lines
- (D) level a surface
- (E) none of the above

For Sample 2, the correct answer is “sledge hammer”. Therefore, alternative “B” has been darkened. The correct answer for Sample 3 is “D.”

## RULE READING AND MEASUREMENT SAMPLE QUESTIONS

These sample questions consist of reading a standard measuring tape or rule and to make measurement calculations.

In these sample questions, you will indicate the measurement of a rule segment, add and subtract measurements given in feet and inches, and add and subtract measurements indicated by segments on a rule.

You must convert all answers into feet (') and inches (").

### REMEMBER

12" = 1' (12 inches equal 1 foot)

24" = 2' (24 inches equal 2 feet)

36" = 3' (36 inches equal 3 feet)

48" = 4' (48 inches equal 4 feet)

60" = 5' (60 inches equal 5 feet)

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In PART1, there are pictures of segments from a standard measuring rule. The numbers on the segments indicate inches. You are to determine the measurement indicated by the arrow, which points to a specific location on the rule segment.

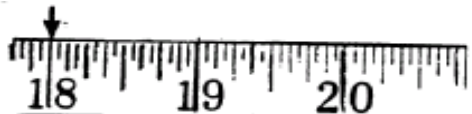
Look at Sample 1 below. The arrow is pointing to a location on the rule indicating 14". After converting this measurement to feet and inches, the correct answer for Sample 1 is alternative "C". Since 14" is equal to 1' and 2", the measure for Sample 1 is 1' 2".

Sample 1



- A. 1' 0"
- B. 1' 1"
- Ⓒ 1' 2"
- D. 14' 0"
- E. None of the above

Sample 2



- A. 1' 6"
- B. 1' 7"
- C. 1' 8"
- D. 1' 9"
- E. None of the above

The correct answer for sample 2 is "A". Since 18" is equal to 1' and 6", the measure for Sample 2 is 1' 6", which is alternative "A".

In PART 2, there are numerical measurements given in feet and inches. You are to add or subtract the measurements as indicated and convert the sum to feet and inches.

Look at Sample 3 below. Adding the two measurements results in a total length of 5' 9", which is alternative "B".

Sample 3

$$\begin{array}{r} + 3' 6'' \\ \hline 2' 3'' \end{array}$$

- A. 5' 8"
- B. 5' 9"
- C. 5' 10"
- D. 5' 11"
- E. None of the above

Sample 4

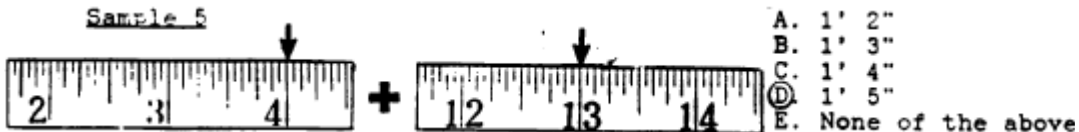
$$\begin{array}{r} + 4' 2'' \\ \hline 3' 7'' \end{array}$$

- A. 7' 9"
- B. 7' 10"
- C. 7' 11"
- D. 8' 0"
- E. None of the above

Adding the two measurements given in Sample 4 results in a total length of 7' 9". Therefore, alternative "A" is the correct answer.

In PART 3, there are pairs of picture segments from a standard measuring rule. You are to add or subtract the measurements indicated by arrows pointing to specific locations on the segments.

Look at Sample 5 below. Adding the two measurements indicated by the arrows results in a total length of 17". Converting this measure to feet and inches results in a total measurement of 1' 5". Therefore, alternative "D" is the correct answer.



Adding the two measurements indicated by the arrows results in a total length of 16". Converting this measure to feet and inches results in a total measurement of 1' 4" which is alternative "C".