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contains information about name, number, purchase information and cost of goods shown on a balance sheet, cabinet oblique 5, 3/8 to decimal 5. How Do You Apply What You Learned? FITTIMEON SIRUROQ 5. b. Materials Sample forms in requesting, receiving, inspecting and storing drafting materials and tools/drawing instrument Pencils/mechanical pencils MECHANICAL DRAFTING 21 K to 12 - Technology and Livelihood Education 23. Note: Always fasten larger backing sheet of thicker drawing paper on the board first. It is used in a similar way to a divider. Estimate the width, height and the depth of the object, then sketch the axes used in isometric drawing. It provides an easy means for accurately measuring curved surfaces. Now proceed to another learning experiences. Maintain the position of the pencil while you glide lightly on the blade of the T-square. Tape or tape ruler is a concave, spring-steel blade ranging from 1/4" to 1" wide and 6 to about 300 feet in length, coiled inside a carrying case. You have to observe proper handling and care of drawing instrument if you want them to function accurately. The most popular type of measuring tools, usually 6 or 12 inches in length, bird's eye view b. It is a useful tool to protect the rest of the drawing when clearing up smudges, unnecessary pencil lines and other erasures. Angle a = 300, s = 30 Width: Scale 1:1 Height: Scale 1:1 Depth: Scale 1:1 Isometric drawing according to standard 2. Remember it is your learning at stake! Criteria for Assessment: Analytic Rubrics Scoring CRITERIA Accuracy Layout/Presentation Speed 5 points The output is accurately done without any help from the teacher. vanishing point c. T-square D. Isometric Drawing 2. Identify assembly and detailed drawing. They begin with one or more Information Sheets. Congratulations! You did a great job! Rest and relax a while then move on to the next lesson. and 45 deg. The measuring tools are also used largely for carrying out different types of measurements. Read and understand the following. DEPTH MECHANICAL DRAFTING 87 K to 12 - Technology and Livelihood Education 89. In this text most metric dimensions are either whole millimeter or two-places decimals that have been rounded off. Orthographic view is drawn by projecting the edge of the object perpendicular to these planes of projection. x 45 deg.) Equipment: Drawing Table MECHANICAL DRAFTING 16 K to 12 - Technology and Livelihood Education 18. Two systems of measurement There are two systems of measurement: the English system which originated in England and the Metric system or Systems International (S.I) which originated in France. Solution: The number to be rounded off is 6 which is greater than 5, drop 6 and add one to the last digit retained. Third-angle Projection (ANSI) The third-angle projection is a system used in the United States which places the object in the third quadrants. Function of a Scale 1. Sketch isometric lines to complete the isometric box, on the drawing represent 1 mm. Conversion of English to metric or metric to English is performed according to procedure. The receding lines in oblique pictorial drawing regularly used a. 1. These tell you what you should know and be able to do at the end of this Module. Read the Information Sheet very well then find out how much you can remember and how much you learned by doing Self-check 3.1. Information Sheet 3.1. CONVERSION OF FRACTION AND DECIMAL Changing Fractions to Decimals Any rational number can be changed from fractional form to decimal form. MECHANICAL DRAFTING 65 K to 12 - Technology and Livelihood Education 67. Select and use measuring instruments LO 2. A. Types of Pictorial Drawing: A. 2. clean and store measuring instruments; and LO 3. Practice the task following the given procedure. It is not enough that you learned concepts on the use of measuring instruments. ISOMETRIC BOX 4. Do not hesitate to go back to the Information Sheet when you do not get all test items correctly. front, rear and sides C. 10 mm to = \_\_\_\_\_ inch B. Unfolded Planes With the planes unfolded and laid flat, the front view is above the top view. MECHANICAL DRAFTING 41 K to 12 - Technology and Livelihood Education 43. requisition slip form 2. Inaccurate measurement would mean a waste of time, effort and materials. Conversion of Decimals to Fractions A decimal is changed to a fraction by using 10 or any power of 10 as denominator of the given decimal. station point 3. When not in use, the T-square is preferably hung by inserting the hole to a nail (attached to a wall) at the end of its blade. 1 point The output is done under the supervision of the teacher Layout and presentation fairly done even with the guidance of the teacher. LESSON 1 Prepare Drafting Materials and Tools/Drawing Instrument LEARNING OUTCOMES: At the end of this Lesson, you are expected to do the following: LO 1. INVENTORY Inventory is the collection of the idle stock of physical goods that contain economic value, and are held in various forms by an organization in its custody awaiting packing, processing, transformation, use or sale in a future point of time INVENTORY FORM The inventory form contains information about items (name, number, sales and purchase information, and cost of goods sold account information) that any business purchases for sale, tracks in inventory, and displays on a balance sheet, Isometric drawing b. Let us determine how much you already know about the assembly and detailed drawing. Remarks: How did you find this activity? TOP L SIDE FRONT REAR R SIDE BOTTOM MECHANICAL DRAFTING 85 K to 12 - Technology and Livelihood Education 87. Materials T-square Triangles 30 x 60 and 45 x 45 Pencils/mechanical pencils Compass Drawing paper Drawing board Scale Eraser Erasing shield Protractor MECHANICAL DRAFTING 32 K to 12 - Technology and Livelihood Education 34. The system for graphically representing the object by a line drawing on a flat surface is called \_\_\_\_\_. piercing point 4. In acquiring tools, be guided by quality and durability. If not, carefully reviewing the lesson helps you understand the concepts better. or Angular perspective - a perspective drawing using having two vanishing points. Show that you learned something by doing this activity Operation Sheet 1.2 Directions: Below is a suggested activity on line exercises. Let us determine how much you already know about use and care of drafting/measuring tools. The a system of orthographic projection that places the object on the first quadrant is called \_\_\_\_\_. Self-Check 1.2 Directions: Using a separate sheet of paper, sketch the following lines indicated in each box. Conversion: Convert the following measurement from metric to English system or vice versa. Did you enjoy doing them? Directions: Name the different measuring tools shown below. C. 0.24 6. Report defective measuring tools and any hazard to instructor immediately. Draw line OC as the receding line. Orthographic View - a drawing that shows a side of an object viewed directly from 90 degrees. Remember it is your learning at stake! Criteria for Assessment: Analytic Scoring Rubrics Criteria 5 points 3 points Accuracy All lines are drawn Some lines are appropriately and drawn freehand inappropriately and NOT in freehand Neatness Finished output Pleasing but was neatly done, erasures and pleasing, and no smudges are erasures/smudges observable on the finished output Time Management Finished the task Finished the task on 10 minutes before time MECHANICAL DRAFTING 83 K to 12 - Technology and Livelihood Education 85. Kind of Lines Sketch of the Lines Short-break line Center line Extension line Dimension line Leader line Phantom line Section line Hidden line Long-break line Cutting-plane line or Viewing-plane line Visible line MECHANICAL DRAFTING 76 K to 12 - Technology and Livelihood Education 78. How did you as a member perform? QUANTITY DESCRIPTION UNIT PRICE TOTAL PRICE I hereby acknowledge receipt of the following in perfect condition as per the set of conditions of our supply contract from the firm of \_\_\_\_\_ (Name of supplying company). 45 degrees X 45 degrees Compass This drawing instrument is used when drawing arcs and circles. Self-Check 1.1 Direction: Match Column A with Column B. English system - scaled in inches where one foot equals 12 inches. Place the head of the T-square against the edge of the drafting table. Tape ruler 2. These are called the horizontal plane, frontal plane, and the profile plane. It provides an easy means for accurately measuring curved surfaces. The object is placed on the horizon at the eye-level of the observer. Directions: Write the names of the kind of lines indicated by numbers 1 to 10. It is used for ordinary work. Self-Check 1.3 Refer to the Answer Key. requisition slip form 4. Accomplish the Scoring Rubrics for you to know how well you performed. Multi-view Drawing D. f. Good luck! REFERENCES LO1 Giesecke, Mitchell and Spencer. The third-angle projection places the object in the third quadrant. Location dimension B. 0.8 3. B. Convert decimals into fractions . Thirty Degrees and Sixty Degrees 3. 67 LESSON 4 - Apply Safety Practices ..... This is also known as the limiting line. Third-angle Projection 8. Concentrate on the parts that cover the questions you missed. NCs are aligned to specific levels within the PTQF. Operation Sheet 1.1 Drawing of lines, angles and circles Supplies and Materials Drawing paper pencil Tools and Equipment Education 107. Match Column A with Column B. Self-Check 1.1 Directions: Write the correct measurements as indicated by extension lines below. ¼ to decimal 3. \_\_\_\_\_ cm. Identify hazardous area LO 2. Type of pencils used for general purpose in drawing D. Each Lesson also provides you with references and definition of key terms for your guide. LEARNING OUTCOME 1 Select and use measuring instruments PERFORMANCE STANDARDS 1. But also consider that the life of any drawing or measuring tools will depend on how well you take care of them. How Much Have You Learned? Scales help a drafter keep the proportions accurate. Divider 5. Two accepted methods used to transfer the depth of the top view to the side view. Drafting materials and tools/drawing instruments are identified per job requirements. An Information Sheet contains important notes or basic information that you need to know. Drafting material used for fastening the drawing paper on the drawing table A. Refer to the Answer Key for correction. Let us determine how much you already know about the of measuring instruments in mechanical drafting. Assign a leader for each group. Concentrate on the parts that cover the questions you missed. 3 LESSON 1 - Prepare Drafting Materials and Tools/Drawing Instrument 4 LESSON 2 - Perform Basic Mensuration and Calculation ..... Study the given object (Figure 1) carefully. convert English to Metric measurement MECHANICAL DRAFTING 30 K to 12 - Technology and Livelihood Education 32. VARIOUS FORMS Accurate entry in different forms used in drafting works is essentially important in order to purchase right, accurate and complete number of drawing materials, tools and instruments needed in a specific drafting job. Concentrate on the parts that cover the questions you missed. Definition of Terms Angle - geometrical figure composed of two straight lines intersecting at one of their extremities Calculation - act or process of or result of calculating Circle - closed curve where all points are equally distant from the center Concentric circles - consist of two or more circles with a common center. It is the measuring tool used for measuring and setting of Angles 2. identify the different drafting materials and tools/drawing instruments applicable to a specific job LO 2. Activity Sheet 1.1 Proper Manipulation of the T-square Directions: Below is a simple activity for you to work on. Neatness Rating Scales The output is free from any erasures. This drafting tool is used to protect the rest of the drawing when removing unnecessary lines. 10 in. Place the drawing paper close to the working edge of the drafting table and working head of the T-square depending on you if you are right- or left-handed, while the paper is placed on top edge of the T-square. NC II performs prescribed range of functions involving known routines and procedures; has limited choice and complexity of functions, and has little accountability. MECHANICAL DRAFTING 2 K to 12 - Technology and Livelihood Education 4. The top view of the object projects up to it, therefore, the top view is in the horizontal plane. Vertical lines MECHANICAL DRAFTING 78 K to 12 - Technology and Livelihood Education 80. Right-cross axis 3. MECHANICAL DRAFTING 90 K to 12 - Technology and Livelihood Education 92. 30 degrees X 60 degrees b. Practice the task following the given procedure. Leader line 5. It helps the drafter to reduce or enlarge the drawing of an object in proportion to its actual size. 8.6245 5. Pretest LO 1 Direction: Select the drafting material and tool/drawing most applicable to a specific job. Ruler B. Eraser C. You can assure that your tools will last long if you patiently and religiously take care of them. inform your teacher that you are ready to solve problems in converting metric measurement to decimal and vice versa. Vertical axis 2. MECHANICAL DRAFTING 86 K to 12 - Technology and Livelihood Education 88. Height (A) Width (B) Depth (C) MECHANICAL DRAFTING 101 K to 12 - Technology and Livelihood Education 103. Scale C. 1-pt. To help you round off your own calculation, rules of rounding are discussed below. Assembly and detailed drawing are interpreted according to drawing standard. Measurements taken must be accurate. Solution: The first number to be eliminated is 2: Simply drop it and all numbers to its right(5) Answer:0.31 2. What Do You Already Know? T- Square 5. Manaois, Drafting 1 and 2; Phoenix Publishing: 1983 Esguerra and Molino, Exploratory Drafting, Abiva Publishing: 1980 Stirling, Norman, Introduction to Technical Drawing, Metric Edition MECHANICAL DRAFTING 29 K to 12 - Technology and Livelihood Education 31. 1. The buyer signs it before it is returned to the seller. Directions: Write the correct measurements as indicated by extension lines below. This ruler C. Ninety degrees and Forty Five Degrees B. How did your group fare? Received materials and tools/instruments are handled with appropriate safety devices. The most commonly used triangles are the 45and the 30x 60. Yes No N/A The student's demonstration was: Satisfactory Not Satisfactory MECHANICAL DRAFTING 42 K to 12 - Technology and Livelihood Education 44. One copy remains with the originating employee, and the original is sent to the purchasing department for execution of the request. Round off the following numbers to their nearest hundredths. CAV CA GENERAL MECHANICAL DRAFTING 96 K to 12 - Technology and Livelihood Education 98. This is the type of oblique pictorial view where the dimension of the receding features of the object is drawn half-scale. MECHANICAL DRAFTING 88 K to 12 - Technology and Livelihood Education 90. \_\_\_\_\_. 5. They are abbreviated as follows: Millimeters mm Centimeters cm Decimeters dm Meters m MECHANICAL DRAFTING 61 K to 12 - Technology and Livelihood Education 63. Show that you learned something by doing this activity Activity Sheet 1.6 Directions: Below is a simple activity for you to work on. Tape Ruler 12 inches in length. This drafting tool is used when drawing vertical lines, front, top, and sides B. In a scale 1: 20 meters, 5 meters is equivalent to: A. Direction: Convert the following. Perform parts of this skill satisfactorily, but requires considerable assistance and/or supervision. Avoid unnecessary sliding of T-square or triangles across the drawing \_\_\_\_\_. 2. Left Side View MECHANICAL DRAFTING 70 K to 12 - Technology and Livelihood Education 72. Iso means equal, metric means \_\_\_\_\_. If you have questions, ask your teacher for assistance. Testing Tools 7. Therefore you can proceed to the next learning activity . Cabinet Oblique B. G. With the left hand pressing the T-square and the triangle against the drawing board, draw the line upward, rotating the pencil slowly between the thumb and forefinger. LEARNING OUTCOME 1 Identify assembly and detailed drawing PERFORMANCE STANDARDS 1. Maintaining effective use of drafting tools in the production of quality projects is the concern of every craftsman. Republic of the Philippines DEPARTMENT OF EDUCATION K to 12 Basic Education Curriculum Technology and Livelihood Education Learning Module MECHANICAL DRAFTING EXPLORATORY COURSE Grade 7 and Grade 8 2. It is made of wood, plastic or the combination of both. Select the correct answer and write the letter of your answer on a separate sheet of paper. T-Square 3 Its main purpose is to reproduce, reduce, or enlarge the D. To measure or layout line distances accurately either in full size and larger or smaller than full size. Depth is the perpendicular distance between two frontal planes. Movable Head or Adjustable Head. To ensure understanding, try your best to supply the needed information to complete the following statements. Align each arm of the dividers so that one point is laying on the start point of the measurement you want to transfer and the other divider point is laying on the endpoint of that same measurement. Clean/Store Drafting Measuring Tools 1. What Do You Need To Know? 9 10 2 CM Compare your answers using the Answer Key. Challenge yourself by keeping on practicing correctly the given steps in each activity. Did you find them difficult? Type of dimensioning that requires all dimension figures be lettered between guide lines that are parallel to the bottom edge of the drawing paper. Protractor 4. 0.75 7. The side of the object projects to the profile plane, therefore, the side view will be seen in the profile plane. Perspective Pictorial Drawing 1. center point d. No. Suggested Supplier Qty Item No. Description Unit Price Amount Budget Control Allowance for period Balance Available Ordered By Amt This Purchase Approved By Remaining Balance MECHANICAL DRAFTING 25 K to 12 - Technology and Livelihood Education 27. cavalier oblique c. Place the point of the drafting compass at the center point of the circle you intend to draw. Then adjust the dividers by orienting the points on the ends of the pencil line. Unfolded Planes If the planes be unfolded and laid flat, the top view would be above the front view. (An observer here would be facing the frontal plane). Be sure to check and then clean tools before and after using them. Good workmanship is associated with the use of quality hand tools. Drawing vertical lines using triangles and T-square How did you find the activities? Orthographic Projection - A system for graphical representation of an object by a line drawing on a flat surface. Pretest LO 4 A. In what way? Measurements taken are accurate to the finest gradation of the selected measuring instrument. Triangular Scales 2. \_\_\_\_\_ Refer to the Answer Key. Enjoy and have fun! MECHANICAL DRAFTING 20 K to 12 - Technology and Livelihood Education 22. Sketch the vertical line OB and horizontal line OA.

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