Mask Production 2020

May be worn over an N95 for isolation precautions to extend N95 use when appropriate during a severe shortage of available PPE. Intended for reuse after laundering. If N95 is visibly soiled, it must be discarded.

**Materials**
- OR linens or other breathable water repellant fabric, such as durable 55%/45% polyester/cotton blend or similar
- Pins
- 1/4” or 3/8” wide Elastic – white or black
- Thimbles
- Fabric Scissors
- Heavy paper for patterns: 9” x 15” & attached mask pattern
- Cardboard – optional (**tip: use a 9.5” piece of cardboard to loop around 10-15 times to cut all at once to produce 20-30, 9.5” pieces)
- Sewing Machine
- Thread

**PREP – Estimated time 3 minutes per unit**

**Station 1: Cutting**
- Cut a rectangular 9” x 15” base paper pattern
- Fold fabric in 4 layers
- Lay 9” x 15” base pattern on top of 4-layer fabric
- Cut around the base pattern

**Station 2: Pinning**
- Take 2 cut sheets and fold in half to make 4 layers
- Cut mask pattern per attached sample (8.19 x 5.4”)
- Pin mask pattern to cut 4-layer fabric using 4 pins around the outside

**Station 3: Cutting**
- Cut the fabric for the mask pattern

**Station 4: Finishing**
- Remove pins and paper pattern from cut fabric
- Separate 4 fabric pieces into 2 sections of 2 layers of fabric each
- Pin 2 piece sections around curved edge vertically, every 2”

**Station 5: Elastic**
- Cut elastic into (2) 9.5” sections.
- Insert (1) elastic into each 2-piece pinned section through the flatter open edge (opposite from the edge that is pinned)
- Check to be sure elastic is not twisted inside the section.

Once elastic strip is inserted into the opening and placed flat in a U shape, center the new elastic ear loop and pin down each end of the elastic strip 3” apart - EVEN with the edge of the fabric (**tip: create a 3” line on your table as a guide**)

Use your completed 2-piece section as a guide for the other section to keep ear loops even

Place a single pin through middle of the 2 sections to make one unit, ready for sewing

**Station 6: Quality Control**
- Examine product and correct any defects before advancing to sewing

**Station 7: Distribution**
- Count and log mask units before issuing for sewing distribution. Record the name of the person picking up inventory. Ensure timely turnaround time of assigned masks, and do not over allocate to a single sewing resource.

**SEWING**
Each mask uses 4 cut pieces of fabric. For added durability, you can use zig-zag stitch and backstitching as deemed necessary.

1. If not yet assembled, pin two pieces together on side where pattern indicates First Seam line, pinning ends of elastic inside, between pieces where indicated by notches.

2. Following the First Seam line on pattern, sew seam using a 1/2 inch seam allowance for GREEN fabric (regular size mask) or 5/8 inch for BLUE fabric (small mask).

3. Turn two halves inside out so that the straps are exposed.

4. Line up and pin the center (nose) seam.

5. Sew both sides together through all 4 pieces of fabric approximately width indicated on pattern.


This information is provided for your independent evaluation. Neither the materials nor design of these masks has been reviewed or approved by the FDA or any other regulatory agency. Each institution must make its own independent determination as to whether the masks are suitable for any particular purpose.
Mask Cover Pattern
Cut 4

First seam, this side
Sew 2 pieces together, then next 2 together

1/2 inch seam for regular mask
GREEN FABRIC

5/8 inch seam for small mask
BLUE FABRIC

Second seam, this side

Elastic- put between 2 pieces

Sew elastic into seam at notches

Elastic- put between 2 pieces

Revised 3/26/2020