



FabLab Tool Training Rubric: Disc/Belt Sander



Personal Protective Equipment

- Standard shop personal protective equipment (safety glasses, no long hair, no flowing clothes, etc.) are required
- **ABSOLUTELY NO** gloves, rings, bracelets, or other items on your hands or fingers, as these may get sucked into the belt or disc
- Dust mask recommended for sanders used in the wood shop
- An attached vacuum is recommended for sanders used in the wood shop

Safe Operation

- Always sand against a sanding table – no ‘free hand’ sanding in mid-air on the main belt surface
- Always sand pieces significantly larger than the gap between the sanding table and the belt or disc
- Only apply enough pressure to allow the sandpaper to remove material; do not force material into the sander
- Move objects continuously back and forth across the sanding belt or disc to prevent burnout
- Only sand on the left side of the disc; never cross over the center of the disc

Common Maintenance Operations

- Belt tracking adjustment:
 - Run sander for a few seconds to see if belt moves towards or away from the disc
 - If the sanding belt moves towards the disc, turn the tracking knob counterclockwise 1/4 turn
 - If the sanding belt moves away from the disc, turn the tracking knob clockwise 1/4 turn
 - Run the sander for a few more seconds to check if the belt moves, repeat the previous two steps if necessary.

Allowable Materials

- Materials sanded are dependent on the shop the sander is in; only wood is allowable in the wood shop, while plastic and most metals are allowed in the metal shop.
- Sanded wood must comply with the following rules:
 - No moldy or wet wood
 - No treated/painted/finished wood
 - All nails and staples removed
 - All hardwoods must be checked against a cutting/sanding chart for hazardous dust reactions

FabLabToolTrainingTest:

Disc/BeltSander

Student's Name: _____

Instructor's Name: _____

Date of Test: ____/____/____

Point out the following tool features:

- ☐ Disc
- ☐ Belt
- ☐ On/Off Switch
- ☐ Sanding Tables
- ☐ Belt Tracking Knob

Personal Protective Equipment:

1. Can work gloves be worn while using a belt sander? (Yes / No)

Safe Operation:

1. Demonstrate safe sanding procedures on a small piece of lumber, on both the belt and disc.
2. Can workpieces be sanded without resting them on the table? (Yes / No)

Common Maintenance:

1. Demonstrate tracking adjustment of the continuous belt.

Allowable Materials:

1. Name all of the materials that can be sanded on wood shop sanders.
2. State 3 requirements of the wood that is sanded on wood shop sanders.

Passed: YES / NO

Instructor's

Signature: _____