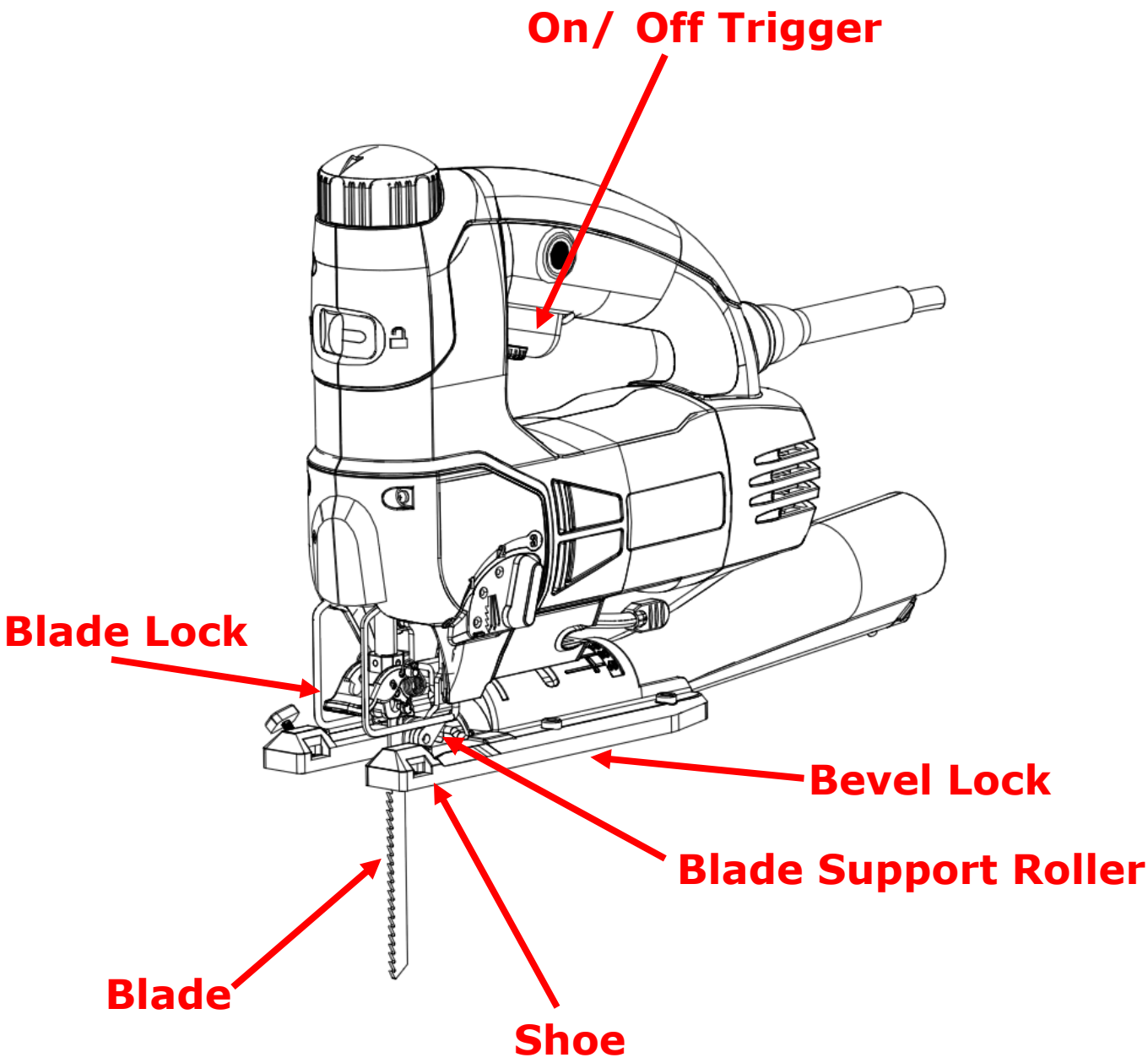
Fab Lab Tool Training Rubric:

Jigsaw



Personal Protective Equipment

- Standard shop personal protective equipment (safety glasses, no long hair, no flowing clothes, etc.) are required

Safe Operation

- Securely fasten the workpiece so that it does not move during operation, and the saw does not cut through clamps or the work table during the cut
- Rest shoe against material during the cut, and press firmly down against the saw
- Keep both hands on the saw, and neither hand on or behind the workpiece
- Use the appropriate blade for the cutting operation. Blade should be the correct type for the material being cut, should extend beyond the material cut at the saw's shortest stroke, and have at least 3 teeth in the material at all times
- Start saw before making contact with the material
- Install blades by lifting the blade lock lever, fully inserting the blade, and lowering the blade lock lever. Test the new blade before a cut by pulling and pushing on it to make sure it is secure. Ensure the blade is correctly seated in the blade support roller
- Set orbit adjustment (if feature is available) appropriately for the material and application. Soft woods cut with the highest orbit, hard woods and plastic with less, metal with none
- Pre-drill or relieve corners to reduce stress on the blade and tool
- Set the speed of the saw to be appropriate to the material, thickness, and rate of cut to prevent excessive vibration or blade wear

Common Maintenance Operations

- Store the saw without a blade and with the safety (if available) on

Allowable Materials

- Blade should be selected according to the material being cut. There are no material restrictions for the saw itself

FabLabToolTrainingTest:
Jig Saw

Student's Name: _____

Instructor's Name: _____

Date of Test: ____/____/____

Point out the following tool features:

- [ ] On/Off Trigger
- [ ] Blade Lock
- [ ] Blade
- [ ] Blade Support Roller
- [ ] Shoe
- [ ] Bevel Lock

Personal Protective Equipment:

Safe Operation:

1. Demonstrate safe blade change
2. Demonstrate safe cut on workpiece, verifying proper tool and operator position
3. Demonstrate setting orbits and blade types for a number of different cutting operations in a variety of materials

Common Maintenance:

1. Demonstrate correct tool storage

Allowable Materials:

N/A

Passed: YES / NO

Instructor's Signature: _____