

## Universal Tester Instructions

1. Turn on the computer using the power strip. Make sure the tower, monitor and printer are all on.
2. Turn on the Universal Tester by turning the red knob on the left side toward you. Also turn on the air compressor located beneath the counter directly under the tester.
3. On the computer desktop, double click on the WinTest icon, which will activate the testing software program.
4. From within the WinTest software environment, click on File select *New Test* from the pull down menu.
5. Depending upon which test you plan to conduct, the test apparatus will have to be arranged. Test jaws, load cells, testing speeds, gauge lengths, compression vs. tensile measurements. **Only the instructor should make these adjustments.** After the tester has been set-up, choose the appropriate test name and click *Okay*. Options for the test name are:

Burst Test for Fabric

Fiber Tensile Properties

Fiber Test

Grab Test

Tearing Strength of Fabric

6. On the Universal Tester, load specimen in upper and lower jaws according to specific test instructions. Use foot pedals to open and close the jaws. *Watch your fingers.*
7. On the Universal Tester, press the *Tare* button. This negates pre-test loads that may be sensed by the load cells.
8. On the computer, at the "Test Heading" screen, click Okay.
9. On the computer, click on *Test* (at the top speed bar) and choose *Start Test* from the pull down menu. The device will then begin testing. Depending upon the test being conducted, the tester may stop itself, or you may have to stop the tester. The two tests where you will have to stop the tester are the Burst and Tear tests.
10. Use the red button with the white circle on it (on the Universal Tester) to stop the test at failure.

11. Press end test after testing.
12. When presented with the option to conduct another test, answer yes or no:
  - A. Yes (to record multiple specimens together within the same test)
    1. Release specimen from jaws.
    2. Push the Universal Tester Fast Return button.
    3. Load the next specimen.
    4. Press the Tare button.
    5. Start over from Step 8.
  - B. No (to change tests or type of specimen)
    1. Release the specimen from jaws.
    2. Push the Universal Tester Fast Return button.
    3. If necessary, change test type and/or jaw faces for the next test.
    4. Load the next specimen.
    5. Press the Tare button.
    6. Start over at Step 5 for a different test.
    7. Start over at Step 8 for the same test with a different sample type.
13. When finished, click on the Printer icon for a readout. Choose to print both chart and results.
14. Shut down the computer system using the Shut Down function.
15. Turn off the Universal Tester. Also make sure to shut off the compressor too.