

Combustion Science Laboratory

Master Checklist

Directions: This document provides the steps to be completed for those who want to use the Combustion Science Laboratory. These steps must be reviewed, completed, and signed off on by the experimenter and a laboratory manager before testing is begun. All documents and related information, including safety and technical references, can be found in the Combustion Science Lab and online at <http://wpi.edu/~combustionlab/documents>

- 1. Review the Combustion Science Laboratory Safety Guidelines and Procedures, Document C-002.
- 2. Participate in a Combustion Science Laboratory Familiarization Tour, Document C-003.
- 3. Read about Combustion Science Laboratory Etiquette, Document C-004.
- 4. Understand the Safety Guidelines and be comfortable with what you were presented during the Familiarization tour. Ask and questions you have.
- 5. If working with standard equipment, such as the LDA, Fume Hood, or Environmental Chamber, review laboratory equipment standard operating procedure (SOP) for the equipment which you will be using and complete a review sheet if working on standard lab equipment. List Equipment Reviewing below and attach completed review sheets:

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 (If not using any standard lab equipment write N/A above)

* Laser Doppler Anemometer (LDA) SOP – document C-SOP-001

* Fume Hood SOP – document C-SOP-002

- 6. Submit a “Sign-up and Summary” document, document C-004
- 7. Submit a Experimental Plan C-005 to be reviewed by your advisor, if needed using the Experimental Plan Checklist for Advisors, and cross checked by a laboratory manager. If your advisor is not a Fire Protection Engineering professor, then Dr. Ali Rangwala must perform a cross check.
- 8. If ordering equipment follow the Instructions for placing purchase orders.

- 9. Schedule set-up and testing time with the Combustion Science Lab laboratory manager. Before initially conducting any experiments using typical laboratory equipment you need to schedule a training session before operating this equipment.
- 10. When arriving or leaving the lab sign in or out respectively.
- 11. Insure atleast one other person, who has completed a minimum of items 1-4 is present at all times during testing. Special permission must be given in writing for students to conduct experiments alone.
- 12. Complete the Lab Safety Training available on myWPI.
- 13. Needed Signatures

Experimenters' Endorsement:

(note: for group projects all members must sign and date)

Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date

Adviser's Endorsement:

Print Name	Signature	Date

Lab Manager's Endorsement:

Print Name	Signature	Date

