

DO NOT use this equipment unless an instructor has instructed you in its safe use/operation and has given permission.



Safety glasses may be required in work areas.



Long and loose hair must be contained or constrained.



Appropriate footwear with closed-toe must be worn.



Long-pants are required.



Rings and jewellery must not be worn.



Hearing protection may be required.

PRE-OPERATIONAL SAFETY CHECKS

1. Check workspaces and walkways to ensure no slip/trip-hazards are present.
2. Check that all equipment components are in position and are operational.
3. Ensure you are familiar with the operation of the equipment.
4. Keep table and work area clear of all tools and debris.
5. Faulty equipment must not be used. Immediately report suspect equipment.
6. Be aware of any other students or personnel in the immediate vicinity and ensure the area is clear before using this equipment.
7. Familiarize yourself with all mechanical operations, switches and controls, including potential chemicals that may be used.
8. If you have any questions or concerns, ask the laboratory technician or instructor first.

OPERATIONAL PROCEDURES

NO FOOD OR DRINK PERMITTED NEAR EXPERIMENTS.

1. Turn on exhaust fan.
2. Turn on master dynamometer switch.
3. Start engine and let it warm up.
4. Let the engine consume the fuel from the glass container on the scale.
5. Record data.
6. Change the load on engine slightly (one turn only) according to procedure.
7. Repeat as needed.

HOUSEKEEPING

1. Turn off all equipment once experiment is completed.
2. Keep all walkways and aisles free of clutter and debris.

POTENTIAL HAZARDS

- Amputation from fan blades/belt and pulley
- Noise
- Eye injuries
- Electrical shock
- Manual handling
- Heat
- Exhaust fumes
- Rotating shaft

Date of last review _____

Signature _____