



Yarn Manufacturing Lab
Textile Engineering Department
Ahsanullah University of Science and Technology

General Lab Safety Rules

No Unauthorized Entry:

Only authorized students and staff are allowed in the lab.

Secure Clothing & Hair:

Tie back long hair, remove jewelry, and keep loose sleeves or scarves restrained to prevent entanglement in rotating parts.

Keep Workspace Clean:

Regularly vacuum lint; store sliver cans, roving bobbins, and tools neatly after use.

No Eating or Drinking:

Strictly prohibited to avoid contamination and accidental ingestion of fiber dust.

Safety Procedures for Specific Machines

Carding Machine

Keep hands clear of licker-in and main cylinder; never remove trash while cylinders rotate; engage lock-out before doffing or cleaning.

Draw Frame

Ensure safety cage is closed; position sliver cans so they do not tip; do not bypass auto-stop sensors; use a hook—not fingers—to clear drafting rollers.

Roving/Speed Frame

Install flyer guards; balance bobbins before starting; never attempt to catch broken roving while flyers are spinning; stop machine to mend ends.

Comber Machine:

Always keep hands away from moving parts and stop the machine completely before cleaning, maintenance, or lap changes.

Ring Frame:

Use traveler cleaner only with spindles fully stopped; keep fingers away from drafting zone; replace broken ends with the auto-doffer disabled.

Rotor Frame:

Wait until rotor speed drops to zero before opening the cover; avoid directing compressed air toward skin or eyes.

Accident and Health Hazard Provisions

First Aid Kit: Know its location and the procedure for treating minor cuts, needle pricks, or dust irritation.

Dust & Respiratory Safety: Operate local exhaust fans; change masks after heavy lint exposure; report persistent coughing or shortness of breath.

Noise Control: Machines can exceed 85 dB. Wear earplugs and limit continuous exposure in high-noise zones.

Fire a Fire safety: Lint is highly combustible—keep floors clean, outlets free of fiber build-up, and know the location of CO₂/extinguisher units. Evacuate immediately if alarms sound.

Incident Reporting: Report all injuries, near misses, or equipment malfunctions to the lab-in-charge without delay for proper investigation and preventive action.

Lab Contact Information

Lab in-charge: Mr. Md. Redwanul Islam (Asst. Prof., DTE)

Emergency Contact: [LA: 01729563267 ; AAO: 01714720195]

REMEMBER: Safety first! Always adhere to lab safety protocols.