	Time left 0:00:53
Question	
Not yet answered	
Marked out of 1.00	
Li-ION/LiPo batteries can be charged using: (Select all correct answers)	
Select one or more:	

□ Another Li-ION/LiPo battery with larger capacity connected directly to the battery being charged.
☑ Special balancing charger for Li-ION/LiPo batteries

☑ Li-ION/LiPo batteries must be put in a fire-proof bag while being charged

☐ Any battery charger if it is connected properly

☐ Li-ION/LiPo batteries cannot be charged

☐ Car battery charger if it is capable of supplying the current above 1C of the battery being charged

Ouestion 2

Not yet answered

Marked out of 1.00

What are the safety risks associated with the fans used for the project?

Select one or more:

- Long hair and objects like scarfs, necklaces, etc. can be sucked into the fans.
- Blades can mechanically damage Li-Po batteries causing fire.
- ☐ The fans are safe. They can be used as is, i.e. no need to take any extra **safety** measures.
- While spinning at high RPM, upon contact with an obstacle, the blades can break off, fly away and cause injury, especially to unprotected eyes.
- ☐ The propellers can be easily stopped by a finger.
- If a blade hits a finger, it will result in injury: it will cut through the skin and, probably, all the way to the bone.

01/02/2024, 12:08	ENGR290 project room hand tool operation, and health and safety quiz (10q) Moodle			
Question 3				
Not yet answered				
Marked out of 1.00				
What should I avoid when	using hand tools? Select all correct statements.			
Select one or more:				
Cutting towards yourself when u	sing cutting tools			
☐ Wearing bulky gloves to operate	hand tools			
Carrying a sharp tool in your poor	cket			
☐ Holding the stock in the palm of	your hand when using a cutting tool or a screwdriver			
☐ Carrying tools in a sturdy tool bo	x to and from the worksite			
Question 4				
Not yet answered				
Marked out of 1.00				
How broken or dull box c	utter blades should be disposed of?			
Select one or more:				
□ a Valuage throughout have in the re-	gular track him but you have to make ourse that nabody (o.g. a cleaning narrown) gets injured. For			

- □ a. You can throw them in the regular trash bin, but you have to make sure that nobody (e.g. a cleaning person) gets injured. For example, you should wrap the blade in scotch tape before throwing it out.
- $\ \square$ b. Bring them to H941 and let the technician handle the disposal.
- □ c. You can throw them in a regular trash bin. No extra measures required as the blades are already dull or broken, so they cannot cause any injury.
- ☑ d. They should be placed in the yellow Stericycle biohazard container (jar) provided in the H933.

/02/2024, 12:08	ENGR290 project room hand tool operation, and health and safety quiz (10q) Moodle		
Question 5			
Not yet answered			
Marked out of 1.00			
What should I avoid doing while operating cutting tools (especially wire and bolt cutto Select all correct statements.			
Select one or more:			
□ rocking cutters from si	ide to side when cutting wire		
using a cutting tool un	til you are trained in its proper and safe use		
warning those in the a	rea to take precautionary measures to avoid possible injury from flying metal pieces.		
repairing cutters			

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Not yet answered

Marked out of 1.00

What should I know about hand saws? Select all correct statements.

Select one or more:

- Start the cut by placing your hand beside the cut mark with your thumb upright and pressing against blade. Start cut carefully and slowly to prevent blade from jumping. Pull upward until blade bites. Start with partial cut, then set saw at proper angle.
- Apply pressure on upstroke only.

- ✓ Hold stock being cut firmly in place.

01/02/2024, 12:08	ENGR290 project room hand tool operation, and health and safety quiz (10q) Moodle
Question 7	
Not yet answered	
Marked out of 1.00	
What are common	n types of pliers and wire cutters? Select all correct answers.
Select one or more:	
✓ Long nose	
End cutting	
Flat nose	
☐ Utility	
Duck nose	
☐ Side cutting	
☐ Gear	
☐ Slip joint	
Question 8	
Not yet answered	
Marked out of 1.00	
What will happen	if a Li-Po battery gets mechanically damaged (e.g. punctured)?
Select one or more:	
The battery will get h	ot due to internal short circuit.
✓ The battery will first expression	emit lots of smoke and then catch on fire.
☐ Nothing.	

 $\hfill \Box$ The battery might emit a small amount of odorless smoke.

☐ The battery will immediately explode.

Question 9

Not yet answered

Marked out of 1.00

You are working in the lab with other students around. You started one of the fans, and a loose piece of wire got sucked in the fan and wrapped around the blades. Luckily, the speed of the fan was not high and nothing happened, e.g. nobody got injured, the blade did not break off, the wire did not get cut, etc.

What should you do?

Select one:

- a. Report to Dmitry (H851-2) or Christian (H941) a near-miss situation, fill out "UNIVERSITY INJURY/NEAR-MISS REPORT" and submit it to Dmitry within 24h following the near-miss.
- b. Call security, fill out "UNIVERSITY INJURY/NEAR-MISS REPORT" and submit it to the security as soon as practical following the near-miss situation.
- $\ \bigcirc$ c. Nothing, because nobody got injured and nothing broke.
- d. Fill out "UNIVERSITY INJURY/NEAR-MISS REPORT" and submit it to the Environmental Health and Safety Office (GM-1000-07) as soon as possible.

Clear my choice

Question 10

Not yet answered

Marked out of 1.00

When should students wear personal protective equipment?

Select one or more:

- ☐ Students can use personal protective equipment (gloves and glasses) at their discretion.
- ☐ Safety glasses only when perform activities that might pose heath and safety risks (e.g. cutting with a knife).
- ☐ Cut proof gloves at all times while in the project room.
- ✓ Safety glasses at all times while in the project room.
- Cut proof gloves only when perform activities that might pose a risk of hand injury (e.g. cutting with a knife).
- Complete Guide to Lithium Polymer Batteries and LiPo Failure Reports

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Final design materials request form ▶