Makers@SoC Induction Training Quiz (MIT101)

Total points 13/13

This is a mandatory induction quiz for entry to Makers@SoC.

The School of Computing of the National University of Singapore is committed in providing and maintaining a work environment that is safe and healthy. This responsibility extends to all staff, students, research partners, contractors and other visitors to the Faculty.

The Faculty's Safety & Health (S&H) policy statements are as follows:

1. The Faculty is committed towards building a positive safety and health culture. S&H is continuously being integrated in all educational, research and workplace activities, thus engendering a safe and healthy environment for all.

2. The Faculty shall take all reasonable efforts to comply with applicable S&H legislations, NUS S&H policies and directives, and best practices.

3. The Faculty shall strive to eliminate hazards or adopt reasonably practicable means to minimize risk of injury and illness at the workplace. This shall be achieved through the implementation of an S&H management system and related S&H programmes in the Faculty and its Departments.

4. The Faculty shall ensure resources are made available for the implementation of an S&H management system.

5. The Faculty shall conduct periodic reviews of its S&H management system for continual improvement of its performance in S&H.

6. The Faculty strongly believes every staff and student has a responsibility to comply with the Faculty's S&H Policy and work collectively and collaboratively to continually improve its S&H performance.

Please watch the video in Multimedia and get 13 marks for the quiz to get access.

Email *

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Watch the Video and get 13 marks for the quiz to get access to Makers@Soc. Every questions is worth 1 point.
Watch Video here

Enter your Student ID (Starts with A) *

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✓ 1.Which of the following equipment is available for use in Makers@SoC? 1

- ○ 3D Printer
- ○ CNC Milling Machine
- ○ Soldering / De-Soldering Station
- ○ Dremel Tool
- ○ Laser Cutter
- ◉ All of the above

✓ 2. What are some of the personal protective equipment available in the Lab? 1

- ☑ Goggles
- ☐ Safety Boots
- ☐ Lab Coat
- ☑ Gloves
- ☐ All of the Above

✓ 3. Which of the following is the correct practice in the lab? * 1/1

- ○ Using equipment without training or not familiar with
- ○ Leaving the power switch on when nobody is around
- ○ Operating the laser cutter without cover or enclosures
- ◉ Not touching the tip of the soldering iron

✓ 4. Which of the following is a suitable type of footwear suitable in a lab environment? 1/1

- ◉ Covered Shoes (Sneakers, kicks, boots etc)
- ○ Slippers
- ○ Sandals
- ○ All of the Above
- ○ None of the above

✓ 5. In case of a fire, where is the assembly area? * 1/1

- ○ The Deck
- ○ Coffee Bean & Tea Leaf
- ◉ Carpark 13
- ○ SR1
- ○ Cool Spot

✓ 6. Is it true that we only use Polylactic Acid (PLA) Filament in the 3D printers? 1/1

- (●) True
- ( ) False

✓ 7. Which of the following are safety precautions to take note when using the 3D printer? 1/1

- (●) You should always wear gloves before removing your items from the 3D printer
- ( ) You can open the top lid and put your hand in the printer to adjust the print board while the nozzle is moving.
- ( ) None of the above
- ( ) All of the above

✓ 8. There are 4 steps to replace/change the filament for the 3D printer. Select the following options that are correct. 1/1

- (●) 1. Open the top lid, 2. Withdraw Filament, 3. Replace Filament, 4. Extrude Filament
- ( ) 1. Extrude Filament, 2. Open the top lid, 3. Replace Filament, 4. Withdraw Filament
- ( ) 1. Withdraw Filament, 2. Open the top lid, 3. Extrude Filament, 4. Replace Filament
- ( ) 1. Open the top lid, 2. Replace Filament, 3. Extrude Filament, 4. Withdraw Filament
- ( ) 1. Replace Filament, 2. Extrude Filament, 3. Open the top lid, 4. Withdraw Filament

✓ 9. What are some of the materials that are **not** allowed in the laser cutter? * 1/1

- (●) Polyvinyl Choride (PVC)
- ( ) Wood
- ( ) Acrylic
- ( ) All of the above

✓ 10. What are the 4 steps required to operate the Laser cutter * 1/1

- ( ) 1. Turn on the Master Switch, 2. Turn on the power for the filtration Unit, 3. Turn on the Socket Switch, 4. Turn on the power Button for the Laser Cutter
- ( ) 1. Turn on the Socket Switch, 2. Turn on the power Button for the Laser Cutter, 3. Turn on the power for the filtration Unit 4. Turn on the Master Switch
- (●) 1.Turn on the Master Switch, 2.Turn on the Socket Switch, 3. Turn on the power for the filtration Unit, 4. Turn on the power Button for the Laser Cutter

✓ 11. The safety feature of the Laser cutter works like this: * 1/1

When the top lid is open, the laser will be turned off.

- (●) True
- ( ) False

✓ 12. You should be following the settings highlighted in the 30 Watts column when using the Laser cutter.

3mm Acrylic:
35 Speed 65 power

6mm Acrylic:
25 Speed 75 Power

- (●) True
- ( ) False

✓ 13. This picture shows that the acrylic is too near to the spring and needs to be calibrated?

- (●) True
- ( ) False