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1. The world of the laser (1)



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- "A sharp, powerful radiation that can drill metals", can be a scalpel in surgery or a blade of light in shows.
- It can also be an optical instrument as well as a light in the field of the Research.







































9.1. To prevent hazards in general. (2) Here you will read a summary: Learn the machine and his use; Make sure that the shutter is closed (the laser power off) from before preparing the equipment;

- . Make sure you have the safety and filters positioned;
- . Take caution for other risks;
- . Use safety glasses when prepare the equipment, the sample, at maintenance, at shields open, when required;
- **. Restrict** the room **access** to the people in charge
- . Do near the equipment only what the experiment need;
- . Remove the switch-on key daily or as needed
- . Open the shutter only when the equipment need the beam.

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10. Emergency pushbutton. (at last)



If an emergency happens and you push the emergency button, **maybe** limit the future damages and the emergency problems, but damages was happened.

=> prevention and care of the people are the best.

- Emergency change the situation . Alert emergency staff, the chief, reception
- . Evaluate how to deal the situation
- . go away and help other people.



In case of **eye pain, clouds, or flash by laser beam, to push the emergency button is too late,**

Have an immediate medical care to limit the visus/eye damage.

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