

# SMAC: Interview Questions for Videos

## I. *Safety Instructions:*

- S1. Which safety rules are important to be cared of for the current equipment?
- S2. Are there any injury risks associated with this equipment?
- S3. What should you do to avoid risks while working with this equipment?
- S4. Which potential hazards (besides already mentioned safety risks) can arise when the equipment is exploited in an improper way?
- S5. What should one do if a hazardous situation appears during the exploitation of this equipment?

## II. *Operation of the equipment:*

- O1. What kind of equipment is it and for what kind of jobs is it suitable?
- O2. What should be performed first before the start of the equipment exploitation?
- O3. How to turn the equipment on and off?
- O4. How to connect the equipment to be able to transfer jobs from a computer to this equipment? (relevant for 3D printers, laser cutter, and possibly for CNC-cutter)
- O5. What should one care of before starting a job on the equipment? (example: cleaning, calibration, fixing parts, other preparations)
- O6. How to change the material? (wooden/plastic plates, filament, etc.). **Example for a drilling machine: how to change a workpiece and a drill bit?**
- O7. **How one can configure the equipment? How to adjust the equipment?**
- O8. **Which settings are adjustable within this equipment?**
- O9. How to define jobs for this equipment? (e.g.: Which software applications can do this and how?)
  - a. Specifically for the drilling machine: how to drill a whole?
  - b. For arrangement plate (a tool used in combination with drilling machine): how one can mark a workpiece, for example, to drill precise lines of wholes?
- O10. Which incidents shall be reported and how to report incidents?

O11. (Table drilling machine specific question) Which equipment with the functionality similar to that of the table drilling machine do we have in the SMAC room?

O12. What shall be performed after the exploitation of the equipment?

*III. Quality and Maintenance:*

Q1. How can one recognize that the equipment shall be maintained or repaired?

Q2. How to maintain the equipment to keep its high quality and longer lifetime?

Q3. How can I contribute so that the equipment operates better?

*IV. SMAC Room Management:*

M1. How can one register to get access to the SMAC room?

M2. If I want to use a special equipment within SMAC, can I register for that?

M3. Can one book an equipment for a specific timeslot within SMAC?

M4. How can one report in case something is missing for equipment?  
Example: missing filament, other materials, needed components, tools, etc.

M5. What should one do (how to report), if he/she recognizes that an equipment misfunctions? (example: 3D printing result is corrupted, filament is over during a job, etc.)

M6. How can one join the maker community and exchange knowledge effectively among employees?

*SMAC available Equipment (to be documented)*

1. Laser Cutter: Epilog Zing 16

2. 3D Printers: Ultimaker 2+, 2Go, 2 extended+, 3 extended

3. Table drilling machine: Alztronic 6 from Alzmetall

4. Soldering station (Weller)

5. Raspberry Pi station

~~6. CNC-Cutter (Smart Automation?)~~ — there is no experts for this equipment and no documentation