

Questions for the workshop-licence

When I am the first person at the laser, what are the steps I have to take in order to make the machine operable? (mandatory question)

1. I am the second person in the morning to use the laser. As I want to set the height for my material the laser-head doesn't move, even though the machine is switched on. What do I have to do?
2. I am working with the laser. Suddenly an orange light on top of the laser starts blinking. What does this mean?
3. What should you pay attention to when you want to laser PVC-sheets?
4. How do I have to prepare my file, if I want to engrave, cut and carve with the laser? How can I differentiate the jobs?
5. I have registered myself in the laser-list, unfortunately I can't be there at the appointed time. What do I do?
6. The material in the laser got too much heat which leads to a little flame igniting on top of the material. How do I react? (candle-flame size)
7. In which unit do I have to draw my file for the laser?
8. I have switched on the laser, yet the machine doesn't start homing and the moving controls don't respond. What do I have to pay attention to for the homing to work?
9. In my Rhino drawing all the lines have the correct colors for the laser. But in the Trotec laser software they don't appear or are depicted black. What should I check?
10. In Rhino I see my polylines exploded into single-lines even though they were polylines in my original drawing software. Why did this happen and how can I fix it in Rhino?
11. I have a lot of objects in my drawing for the laser. While lasering I notice that the objects are being cut in a random order and not systematically. What did I forget?
12. How and in which software do I do the Vector-sorting (Vektorsortierung)?
13. What is Vector-sorting (Vektorsortierung)?
14. In the Trotec laser software, I have assigned all colors the correct properties for my material, nevertheless the lasering leads to a burnt result. What can be the cause of this?
15. How do I define the size of the print area in Rhinoceros?
16. I have set the correct size for my print area, but the drawing appears too large or too small in the preview. What can be the cause of this?
17. The laser suddenly stops working, but is evidently still turned on. What happened? What did I overlook?
18. What is the difference between plexiglass (acrylglass) GS and XT?
19. I want to laser something during the weekend. Am I allowed to be in the workshop alone?
20. What always has to be written under the category "Zublasung" (Air assist) in the Trotec laser program?
21. I have set "Gas 1" for "Zublasung" (Air assist) nevertheless smoke development is unnaturally heavy. What could be the cause of this?
22. I have a laser file with two building façades including openings and patterns that need to be carved. How do I have to prepare the laser file?
23. The laser is working on a job, I feel like having a break, what do I have to pay attention to before I leave the machine?
24. The laser is turned on, the print job is in Trotec with the correct settings but I can't find the "Play-Button" to start the job. What can be the cause of this?

25. I have an appointment set for the laser but my laser-file isn't completely finished yet. What programs are installed on the workshop-computer to modify my file?
26. What happened when all the lights on the laser start blinking and the machine makes a high pitched sound?
27. What do I have to do if the moving controls for the laser head and table don't respond to my input?
28. What happened if the Trotec program spawns the "Dieser Job kann nicht positioniert werden!" warning? ("This job cannot be positioned!")
29. What happened if the laser doesn't cut through the material but only leaves a thick mark?
30. Can I also carve with a different color besides red?
31. What do I have to set in Trotec Job Control so that the laser carves a job and what do I have to set so that it cuts a job?
32. Where can I get the information on what to set in Trotec so that the laser cuts through 3mm thick plexi (Acrylglas GS)?
33. What do I have to do if it starts burning inside the laser?
34. What do I have to do if there is heavy smoke development in the laser? (there is no fire)
35. How do I get a laser time slot?
36. How do I know which materials are allowed to be lasered and which are not?
37. How does the payment work with the laser?
38. Am I allowed to laser PVC? Why?
39. Which types of wood are not allowed to be lasered?
40. Is it allowed to laser metal? Why?
41. How many curves can I send to Trotec from Rhino before the computer freezes?
42. To how many hours per week is a student entitled to on the laser?
43. Can I change the order of the colors in the Trotec Job Control program?
44. What is the difference between the homing process of the laser and the cnc milling machine?
45. How many axes do the laser and the cnc milling machine have?
46. Where do I dispose my Wood-/Cardboard-/Plasticwaste?
47. I am the last person in the workshop before it closes. What do I have to do before I leave?
48. A student I'm friends with wants to borrow my chip. What do I do?
49. Somebody keeps knocking on the door because he wants to use some of the machines in the workshop. How do you react?
50. What do I have to expect when I violate the workshop rules?
51. There is a wedge holding the door open. What are my responsibilities and what do I have to expect when I ignore them?
52. There's a problem in the workshop that I can't resolve myself. What do I do?
53. My Job on the Laser/Mill is taking very long. Can I leave the machine for a short while, when I'm sure that nothing will go wrong?
54. I have a workshop-chip. Somebody without a chip asks me to accompany them to the workshop so that they can use the machines. Is that allowed?
55. What people can accompany me to the workshop?
56. I want to use a disc-type sander. What do I have to pay attention to?
57. How should the workshop be left behind?
58. What do I do when I see a wedge holding the door open?
59. Somebody is cutting without an underlay on the workshop tables. What do I say to them?
60. Why am I not allowed to work alone in the workshop?
61. What has to be done if somebody injures themselves?

62. If I have a workshop chip, am I allowed to work on the machines alone?
63. Can I sand concrete, plaster or soapstone on the (disc-type) sanders?
64. Am I allowed to bring somebody who doesn't own a chip to the workshop with me?
65. Can I borrow or pass on my chip? Yes/No? Why?
66. When should you use the locker with the emergency numbers?
67. Where is the first aid kit in the workshop?
68. During what times am I allowed to be in the workshop?
69. What do I do when there's no electricity in the front part of the workshop?
70. Why do I have to use underlays on the tables?
71. What do I have to pay attention to when I'm cutting with a Stanley knife or a cutter on the table?
72. What consequences can I expect if I borrow my chip to somebody and the workshop team notices this?
73. What should I do as the last person in the workshop, especially when it's late at night?
74. How do I set the right height for the z-axis on the mill?
75. I want to 2d-cut something on the mill. Describe the difference between inline, outline and carving?
76. In which unit do I have to prepare my drawing for the cnc milling machine?
77. There's a vacuum next to the mill. Is it relevant for me or is this just a tool for the cleaning staff?
78. I want to mill something during the weekend. Am I allowed to be alone in the workshop?
79. What are the steps you should always take before starting a job on the milling machine?
80. I start up the milling machine computer, but when I want to load my file my usb stick is not recognized. What can I do?
81. I have set all the correct parameters for the mill and start the job, but the mill doesn't move in reality only on the computer screen. What is the reason for this and how can I solve this problem?
82. Where do I get the information what parameters to set to cut 3mm MDF with the milling machine?
83. Where can I get a cutter for the milling machine?
84. What was forgotten if the milling machine cuts too deep?
85. How do I know what speed I am supposed to set on the milling machine to cut my material?
86. When and how do I use the vacuum table connected to the milling machine?
87. What should I check before turning on the milling machine pc? (3 steps)
88. Why does the usb stick have to be plugged in before turning on the milling machine pc?
89. How big can the workpiece for the milling machine be?
90. Which materials can be cut with the milling machine?
91. Which materials can't be cut with the milling machine?
92. What is the red "emergency stop" button at the milling machine for and what happens when I press it?
93. How do I pause on the milling machine?
94. What protective clothing/gear do I need when I'm working with the milling machine?
95. Why should I never be working on the milling machine alone?
96. Can I leave the milling machine while it's working on a job?
97. How does the file for the milling machine have to be prepared?
98. How do I load my file on the milling machine?
99. My file contains splines. What do I have to pay attention to on the laser and the milling machine?
100. Name 3 possible reasons why the mill cuts too deep into the foundation plate.