



## 1 Assessment checklist<sup>1</sup>

<b>Family Name:</b>	<b>First name:</b>
<b>Profession:</b>	<b>Counselling on assistive devices:</b> <input type="checkbox"/> Optics <input type="checkbox"/> Technical
<b>Recommended optical devices:</b>	<b>Recommended assistive devices are available for assessment:</b> <input type="checkbox"/>
<b>Prerequisites residual vision complied :</b> <input type="checkbox"/>	<b>No medical reasons for exclusion:</b> <input type="checkbox"/>
<b>Date:</b>	<b>Validator:</b>
<b>3D printer used:</b>	<b>Design software used:</b>

<b>Magnification used:</b>		<b>Remark:</b>
<b>Mouse pointer setting:</b>		<b>Remark:</b>

### Evaluation scheme:

1 = No difficulties

2 = Slight difficulties (in locating the mouse pointer, finding and identifying the objects, executing the functions).

3 = Significant difficulties (mouse pointer is not recognised several times, objects are not located and/or identified more often, multiple incorrect execution of functions)

4 = Considerable difficulties (number of errors predominates)

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<sup>1</sup> This section will be issued separately as a form once this draft has been released



## 2 Section: Checking the optical abilities

### Part 1 Operation Software

#### Orientation and operation with optical pointing device

Activity	Rating 1-4	Comment
Navigation with the mouse: <ul style="list-style-type: none"><li>- Object browser</li><li>- Perspective</li><li>- Toolbar</li><li>- Menu bar</li><li>- View setting</li></ul>	0	
Moving the three axes with perspective button <ul style="list-style-type: none"><li>- Front</li><li>- Top</li><li>- Right</li><li>- Rotate with rotation arrow</li><li>- Zoom in Zoom out</li></ul>	0	
Moving the three axes with view adjustment <ul style="list-style-type: none"><li>- Rotate the display 360° horizontally</li><li>- Rotate the display 180° Vertical</li><li>- Moving the control surface to the right</li></ul>	0	
<b>Mean value:</b>	0,0	

#### Drawing surfaces

Activity	Rating 1-4	Comment
Draw a rectangle from the centre. Dimensions 100x50mm	0	
Drawing a square from the centre. Dimensions 50x50mm	0	
Drawing a circle from the centre. Diameter 50mm	0	
Draw an isosceles triangle. Side length 50mm each	0	
Drawing a trapezoid from the centre. Dimensions 50x50x20mm	0	
<b>Mean value:</b>	0,0	



### Drawing bodies

Activity	Rating 1-4	Comment
Drawing a sphere. Diameter 50mm	0	
Drawing a cube with an edge length of 75mm	0	
Drawing a cylinder diameter 30mm, height 80mm	0	
<b>Mean value:</b>	0,0	

## Part 2 Guided Operation FDM Printer

### Proper and safe operation and handling

#### Commissioning and printing

Activity	Rating 1-4	Comment
Setting the extruder temperature	0	
Attaching the filament roll and inserting filament into filament tube	0	
Loading the filament into the extruder via control panel	0	
Remove excess filament from the nozzle	0	
Performing a test print	0	
Removing the proof from the build plate	0	
Evaluation of the printed object	0	
Adjustment of the build plate	0	
<b>Mean value:</b>	0,0	



### 3 Section: Review of technical skills

#### Identification of at least 5 Hazardous sources

1. Burnings through hot nozzle
2. Risk of hand crushing due to moving print bed
3. Danger of drawing in at the feed knurls and drive belts
4. Irritating emissions in the ambient air due to hot plastics
5. Injury to the eyes from liquid plastic
6. Injury to the eyes due to plastic splinters during post-processing

Of the above-mentioned Hazardous sources mentioned:

Evaluation Result:

Scoring formula: 5 / number of correct answers

#### Independent commissioning and printing

Activity	Rating 1-4	Comment
Setting the extruder temperature	0	
Attaching the filament roll and inserting filament into filament tube	0	
Loading the filament into the extruder via control panel	0	
Remove excess filament from the nozzle	0	
Performing a test print	0	
Removing the proof from the build plate	0	
Evaluation of the printed object	0	
Correct use of protective equipment	0	
Maintenance guide rails	0	
Maintenance Z spindle	0	
<b>Mean value:</b>	0,0	



## 4 Evaluation

### Evaluation

Orientation and movement	
Drawing surfaces	
Drawing bodies	
Guided operation FDM printer	
Hazardous sources	
Independent operation and maintenance	

The following clarification is still needed:

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## Comment

## Employment opportunities

- ☐ Production **with** construction parts
- ☐ Production **without** construction shares
- ☐ Production **with finishing**
- ☐ Customer advisory service
- ☐ Technical support from the manufacturer/supplier
- ☐ Machine maintenance
- ☐