



9th International
Abilympics
Bordeaux 2016

Vocational Skills Contest

V48 Optician

1. Task Assignment

This task consists in producing two different pieces:

1st assembly: production of drilled frame eyeglasses.

2nd assembly: production of full-frame eyeglasses (ringed).

Contestants will submit their final products, all the templates, the completed control sheet and the replaced lenses.

2. Allocated time: 6H00

6 hours of competition.

1st assembly: approximately 1 hour and 30 minutes.

2nd assembly: approximately 4 hours and 30 minutes.



3. Requirements

- 1st part: assembly of the lenses using a hand abrasive cutter and a pillar drill.

- 2nd part: assembly of the lenses using a lens grinder.

For the production of the 2 pieces, you will have to refer to the customer details file in for assembly and frame alignment data.

At the beginning of the contest, contestants should make sure that the lenses and frames are in perfect condition.

The replacement of a maximum of 4 lenses will be authorized during the task.

Penalty: for each extra replacement, 3 points will be removed from the final score.

Scratched lenses, lenses with an axis error of more than 15° and inverted lenses will cause an extra penalty of 7 points.

4. Procedure

Day -1 (March 24th): On the day before the competition, contestants will be welcomed on the stand “V48 Optician” by the members of the jury. A briefing about the organization of the contest and the safety rules will be arranged. Contestants will draw lots to be assigned to a work station, where they may drop off their tools.

Day 1 (March 25th): Contestants will receive the final task assignment. They will have approximately 1 hour and 30 minutes to complete the first assembly.

Day 2 (March 26th): Contestants will have approximately 4 hours and 30 minutes to complete the second assembly.








5. List of the provided equipment

Non-exhaustive list.




| N° | Equipment | Picture | Specifications | Qty per person | Notes |
|----|---------------------|---|----------------|----------------|---------------------------------|
| 01 | Set of twist drills |  | | 1 | |
| 02 | Pillar drill |  | | 1 | |
| 03 | Set of needle files |  | | 1 | |
| 04 | Frame n°1 | | | 1 | Provided the day of the contest |
| 05 | Frame n°2 | | | 1 | Provided the day of the contest |
| 06 | Corrective lenses |  | | 16 | |



6. List of tools to be brought for each contestant

| N° | Tools | Picture | Specifications | Qty | Notes |
|----|------------------|---|----------------|---------|-----------------------------|
| 01 | Flat files |  | | 1 set | |
| 02 | Pliers |  | | 1 set | Contestant's choice |
| 03 | Screwdrivers |  | | 1 set | |
| 04 | Markers, pencils |  | | Several | |
| 05 | Ruler |  | | 1 | |
| 06 | Scissors |  | | 1 pair | Contestant's choice |
| 07 | Safety glasses |  | | 1 | |
| 08 | Caliper |  | | 1 | |
| 09 | Other tools | | Toolbox | 1 | To be validated by the jury |

7. List of facilities installed at the contest site

| N° | Equipment | Picture | Specifications | Qty | Notes |
|----|----------------------|---|----------------|-----|-------|
| 01 | Hand abrasive cutter |  A white, compact, hand-operated abrasive cutter with a yellow abrasive wheel and a green handle. | | 1 | |
| 02 | Lensmeter |  A white, upright optical instrument with a digital display screen at the top and a lens holder in the center. | | 1 | |
| 03 | Drill |  A white, bench-mounted drill with a black handle and a silver base. | | 1 | |

8. Evaluation Criteria



| N° | Items to be Evaluated | Scoring scale |
|----|--|---------------|
| 01 | Appearance: cleanliness of the frame | 5 |
| 02 | Appearance: frame condition | 5 |
| 03 | Appearance: scratches on the lenses | 5 |
| 04 | Appearance : slivers | 5 |
| 05 | Assembly: assembled lenses | 10 |
| 06 | Assembly: stability of the lenses | 10 |
| 07 | Assembly: inverted lenses L/R | 10 |
| 08 | Frame alignment: opening of parallel and symmetrical side-branches | 5 |
| 09 | Frame alignment: length of the side-branches (from the hinges to the bends) | 5 |
| 10 | Frame alignment: angle of inclination of the side-branches 6° | 5 |
| 11 | Production: dimensional accuracy (drilling) | 5 |
| 12 | Production: respect of horizontality | 5 |
| 13 | Production: respect of height dimensions | 5 |
| 14 | Production: respect of dimensional pre-adjustments. Curved outline 3mm. Opening angle 90° to 95° | 5 |
| 15 | Production: counter-bevel | 5 |
| 16 | Production: assembly of nose-pads | 5 |
| 17 | Production: assembly of side-branches | 5 |
| | Total | 100 |