

V35 Electrical Installation

1. Final Task Assignment

The task consists in the completion of 3 modules.

- Module n°1: Installation and wiring of different elements.

Using a layout plan, contestants will install electrical outlets and a lighting system on a BA13 type support. They will then wire everything to the distribution board. Part of the lighting system will be regulated by a clock and a twilight switch.

- Module n°2: Installation of a distribution board destined to the protection of goods and people. Using their technical instructions, wiring of all the elements: circuit breaker, differential circuit breaker, trip switch, twilight switch and clock.

- Module n°3: Starting and calibrating of a house automation system.

2. Allocated time: 5h00

5 hours of competition.

3. Requirements

- Contestants must respect the safety rules.
- Contestants must follow the installation instructions.
- They will tidy up and clean their workstation.
- They will follow the starting procedure.

4. Procedure

Day -1 (March 24th): On the day before the competition, contestants will be welcomed by members of the jury. A briefing about the organization of the competition and the safety rules will be arranged. Contestants will draw lots to be assigned to a work station.

Day 1 (March 25th): Contestants will have 2 hours and 30 minutes to complete module n°1.

Day 2 (March 26th): Contestants will have 2 hours and 30 minutes to complete modules n° 2 & 3.

Module 2: 1h45.

Module 3: 45mn

| N° | 5. Evaluation criteria | Scoring scale |
|-----------------|--|----------------------|
| Module 1 | | 33 |
| 01 | Respect of the positioning of the 3 electrical outlets (see dimension on the provided plans) | 1.5 |
| 02 | Quality of the positioning of the 3 electrical outlets (level and solidity) | 1.5 |
| 03 | Quality of the wiring of the 3 electrical outlets | 2.5 |
| 04 | Respect of the positioning of the 2 toggle switches (see dimension on the provided plans) | 1.5 |
| 05 | Quality of the positioning of the 2 toggle switches (level and solidity) | 1.5 |
| 06 | Quality of the wiring of the 2 toggle switches | 2.5 |
| 07 | Respect of the positioning of the 3 push buttons (see dimension on the provided plans) | 1.5 |
| 08 | Quality of the positioning of the 3 push buttons (level and solidity) | 1.5 |
| 09 | Quality of the wiring of the 3 push buttons | 2.5 |
| 10 | Respect of the positioning of the 2 light domes (see dimension on the provided plans) | 1.5 |
| 11 | Quality of the positioning of the 2 light domes (solidity) | 1.5 |
| 12 | Quality of the wiring of the 2 light domes | 2.5 |
| 13 | Respect of the positioning of the x spotlights (see dimension on the provided plans) | 1.5 |

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| 14 | Quality of the positioning of the x spotlights (solidity) | 1.5 |
| 15 | Quality of the wiring of the spotlights | 2.5 |
| 16 | Respect of the positioning of the twilight switch (see dimension on the provided plans) | 1.5 |
| 17 | Quality of the positioning of the twilight switch (solidity) | 1.5 |
| 18 | Quality of the wiring of the twilight switch | 2.5 |
| Module 2 | | 26 |
| 19 | Respect of the positioning of the distribution board (see plan) | 2 |
| 20 | Quality of the positioning of the distribution board (level and solidity) | 2 |
| 21 | Respect of the positioning of the protection modules in the distribution board | 4 |
| 22 | Labeling of the protection elements in the distribution board | 2 |
| 23 | Respect of the positioning of the management modules | 4 |
| 24 | Quality of the wiring of the protection equipment | 6 |
| 25 | Quality of the wiring of the management module | 6 |
| Module 3 | | 26 |
| 26 | Proper functioning of the electrical outlet circuit | 4 |
| 27 | Proper functioning - Lights 1 | 4 |
| 28 | Proper functioning - Lights 2 | 6 |
| 29 | Proper functioning - Lights 3 | 6 |
| 30 | Correct configuration of the manager | 6 |
| Evaluation on the 3 Modules | | 15 |
| 31 | Organization and method | 5 |
| 32 | Cleanliness of the work station | 5 |
| 33 | Respect of the safety rules | 5 |
| TOTAL POINTS | | 100 |



Abi wishes you a good competition!