**The carpentry subject**

**Artic Skills 2021**

|  |  |  |
| --- | --- | --- |
| **Name of attendant** | **school** | **Task** |
|  |  | A |

|  |
| --- |
| **Oversettelse** |
| **Participant´s instruction** |  |

|  |  |
| --- | --- |
| **The carpentry subject** | |
| Preparation.  What to do before the competition starts. | Plan the construction off timber roof trusses in accordance to the drawing(s). Students from various schools bring with them equipment for protection themselves, for instance working outfits, helmets, hearing protection and safety goggles. The event host will provide necessary electronic tools, fasteners and other materials for the competition. The materials and tools will be in the right place before the start of the competition. The materials will be covered by plastic the day before the competition starts. |
| Implementation | **Build two timber roof trusses according to the drawing. All the participants should use the same tools during the competition.**  **NB: all the components of the timber roof trusses should be constructed during the competition.**   * **There should not be any other electronic equipment available apart from a stationary racing saw, a splitting saw and a drilling machine.** * **It is allowed to use screws in order to join the overlying truss to the underlying one. Three screws will be used for this.** * **Plates of plywood (15 mm) to join the trusses. These will be nailed with 50 mm nails.** |

|  |  |
| --- | --- |
| **Preparation time** | Become familiar with tools and materials the day before the competition |
| **Break time** | When needed |
| **Task time** | 5 hours |
| **Total time** | 5 hours |

|  |  |  |
| --- | --- | --- |
| **Task sections/point distribution** | | **Maximum points awarded** |
| **A1** | Health, environment, safety, work structure and order | 6 |
| **A2** | Ability with tool use, unnecessary waste of materials | 6 |
| **A3** | Length- overlying truss | 6 |
| **A4** | Length- underlying truss | 6 |
| **A5** | Placing the underlying truss, horizontal 300mm protrusion. | 6 |
| **A6** | Control the size of the plates, 15mm plywood  1 piece 103x159  2p 55x198  2p 55x159  2p 55x119  Number of nails: 10 nails, evenly distributed on each plate. | 6 |
| **A7** | Placement off diagonal joints on the underlying truss (801, 797, 801) | 6 |
| **A8** | Placement off diagonal joints on the overlying truss (686, 711), both sides | 6 |
| **A9** | Placement of the plywood plate, 55x 198 centered and symmetrical. | 6 |
| **A10** | Placement of plywood plates 55x159, symmetrical and 29mm from the diagonal joint. | 6 |
| **A11** | Placement of the plywood plates (55x119 and 103x159), symmetrical. (turn around the timber roof truss) | 6 |
| **A12** | Control the attachment of the overlying truss with the underlying truss.  Deviation from 2mm or more results in the loss of points | 6 |
| **A13** | Control that the attachment of the overlying trusses are tight and symmetrical. Openings extending 2 mm or more will result in loss of points. | 6 |
| **A14** | Control that the underlying trusses are attached to the diagonal joints. Openings extending 2 mm or more will result in loss of points. | 6 |
| **A15** | Control that the overlying trusses are attached to the diagonal joints. Openings extending 2 mm or more will result in loss of points. | 6 |
| **A16** | Assessment of final product and total impression. Damages, pencil lines etc will result in a loss of points. | 6 |
| **Total points** | | **96** |