WORLDSKILLS SINGAPORE 2023 Official (Open) TECHNICAL DESCRIPTION



3D DIGITAL GAME ART

Skill Competition

- 1. This competition covers the creation of animated 3D game assets and exporting them to a game engine.
- 2. Conducted as an individual event, competitors are given 22 hours over 3 days to complete the Test Projects for this competition.
- 3. The competitor will be required to interpret the design brief, conceptualize and produce 2D concepts, create animated 3D game assets and export them to a game engine

Scope of Work

- 4. Competitors must be able to demonstrate competencies in the following areas:
 - 4.1. Organize and manage work
 - 4.2. Interpret the design brief
 - 4.3. Produce 2D digital concepts of the required assets for the game
 - 4.4. Produce 3D models
 - 4.5. Perform UV unwrapping
 - 4.6. Perform texturing
 - 4.7. Perform rigging and animation
 - 4.8. Perform Technical Art / Integrate into Game Engine

<u>Assessment</u>

- 5. Competitors will be assessed based on measurement (objective) and judgement (subjective) marking.
- 6. The assessment criteria and relative weighting of marks are as follows:

| Criterion | | Marks |
|-----------|----------------------------------|-------|
| А | Work organization and management | 5 |
| В | Interpretation of design brief | 5 |
| С | Concept art | 13 |
| D | 3D Modelling | 25 |
| Е | UV unwrapping | 12 |
| F | Texturing | 13 |
| G | Rigging and Animation | 12 |
| Н | Technical Art / Game Engine | 12 |
| Total | | 100 |

The organisers reserve the right to update the Technical Description whenever necessary

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Major Tools & Materials

- 7. The following tools and materials will be used in the competition:
 - 7.1. Installed Software
 - a) Autodesk Entertainment Creation Suite Ultimate (3DS Max, Maya, Mudbox)
 - b) Z-brush
 - c) Blender
 - d) Adobe Photoshop
 - e) Adobe Illustrator
 - f) Substance Painter
 - g) Substance Designer
 - h) Game engine Unreal, Unity

7.2. Hardware

- a) Windows PC with dual monitor (without internet connection)
- b) Network server
- c) Tablet and stylus
- d) USB thumb drive

7.3. Available Resources/References

a) Texture library, where appropriate.