

Techwars Round 3 Internal Instructions

Day: Psifi Day 4

Time: 8:30-1:00 p.m.

Required Documents:

-Delegate guide: a guide for delegates to set up and run the required programs

Required Programs:

- Node-RED
- Google Sheets
- Grafana

Required Online Accounts:

- Google Account
- Grafana Account

Proceedings:

The day before the round, delegates will receive an introductory guide to Google Sheets, Node-RED and Grafana to make a complete or partially complete Dashboard on their favourite topic.

On the day of the event, they will follow the On-Spot Challenge document to implement a small additional element to their design, testing their understanding and ability while helping root out potential plagiarism.

Delegates are expected to know basic programme flow and syntax. They may encounter basic JavaScript and JSON code, but will be guided such that they can work their way through it.

They will then be expected to give brief presentations on their content.

Time Division:

- Pre-Round prep time
- Prep Time: 8:30-11:30
- Presentations: 11:30-1:00 p.m.

Grading:

-Functionality: 10 points

Functionality refers to whether the code works as described and expected, updating timely without errors or delays

-Data Complexity: 10 points

A practical design that delegates can prove has real world usefulness, with only the most useful data displayed in a meaningful way.

For instance, if a delegate displays more data that apparently serves no purpose, then they would lose points here.

Conversely, if a delegate connects all data in an intuitive way, using the most relevant graphs (e.g. a pie chart for percentages), they will score higher.

-Design Complexity: 10 points

The complexity and variation in design choices made by delegates. Including the number of design elements, unusual design elements that demonstrate in-depth learning, etc.

-Design: 10 points

This refers to a focus on colors, designs and ideas that are aesthetically appealing.