PLC300 Project

You need to extend the features of the OEE project. The previous calculation needs to be verified by re-writing the C++ code. There has also been a request to set a target value for OEE and create an alarm associated with it. This is set through Node-Red. A report also needs to be generated from logging the OEE value.

[1.5] eHMI
On the HMI, you need to add:
- [0.5] Add text with background to indicate whether the actual value </> than target
- [1] Add remote (Node-RED) and local (AI) control for giving target value

[3] C++ Integration
Create an OEE library in C++ to calculate the OEE from the availability, performance and quality metrics

[1] Datalogger
Manual XML creation for logging the target OEE value on change

[2] Python
Generate a report from the target OEE value database. This should be downloadable

[0.5] REST
Use browser or other to show values using a HTTP request

[3.5] Node-Red
- [1.5] Show OEE value
- [2] Change target value from UI

[10] Data mapping
- [5] MODBUS
- [5] PNIO

[0.5] OPC UA Historical Access
OEE value available for historical data access

[1] Library
Release a library that is used in the project (e.g. Datatypes/FB/FU/HMI)

Units
- Time – minutes
- Quantity – PC
- OEE – Percentage

Minimum mark 15/23