Abstract

This bachelor thesis examines the possibilities and advantages of an automated high-voltage cabinet. For this purpose, the high-voltage cabinet at the Hogere Zeevaartschool in Antwerp is used. First, the cabinet is visualised to understand it better and to work in a goal-oriented way. To optimise the cabinet, a PLC is used that offers more possibilities on the one hand, and a general control cabinet in which the position of the circuit breakers is visualised on the other hand. Finally, this bachelor thesis writes a program in the most efficient programming language to load into the PLC. This PLC allows remote service and repairs of high-voltage cabinet components. At the end of this research, the cabinet will operate on a safe current voltage so that work on the cabinet can be done more safely in the future.