

## ABSTRACT

**Heru Pratomo**, 2017, NIT: 50134750.N, "*Optimalisasi Kesiapan Penggunaan Alat Pemadam Kebakaran Di MV.ORIENTAL MUTIARA*" Nautical Thesis Program, Diploma Program IV, Merchant Marine Polytechnic Semarang, Supervisor I: Capt.H.Moh Aziz Rohman, MM ,Mar Advisor II: H. Mustoliq, MM

*Fire extinguishers must exist in each vessel, based on the rules in SOLAS chapter II-2. Maintenance and repair of the tool is very important that the condition of fire extinguisher in good condition and ready for use in case of fire on board to support the safety and smooth operation of the ship, seeing natural events in MV.ORIENTAL MUTIARA is a fire that occurred in the ECR konsleting cause by less than optimal electrical and fire fighting and known also many fire extinguisher that condition is not ready. This problem is cause by a lack of knowledge about fire prevention. The purpose of the this study is to determine how used fire extinguisher properly and how to treat them and countermeasures in the event on board in accordance with the certificate of fire in MV.ORIENTAL MUTIARA.*

*This study used descriptive qualitative method by ranking of any problems found and subsequently in select priority problems using ultrasound methods are described in detail later fire fighting efforts and the use of extinguisher and extinguisher maintenance in MV.ORIENTAL MUTIARA.*

*These results indicate that personnel do not carry out the procedure in the maintenance, use and repair of fire extinguisher, why the crew less knowledge about fire extinguisher on board as well as countermeasure in case of fire, that is because knowledge of SOLAS less. Not specifically skipper in giving the penalty, a lack of information by the propagator III, and also rarely invented fire fighting exercise and the use of fire extinguisher and other safety equipment. Data was collected by interview, observation and documentation directly take the form of a data inventory extinguisher in MV.ORIENTAL MUTIARA.*

*It was concluded that the role of officer on the ship fire extinguisher dit as very important with regard to maintenance, repair order extinguisher in good condition and ready for use in case of fire on board. The importance of fire drills on board a regular basis to train alertness and checking fire extinguishers itself.*

**Keywords:** *Optimization, fire extinguisher, the role of officer and crew*