

Maestría en

INGENIERÍA AUTOMOTRIZ

Tesis previa a la obtención de título de Magíster en Ingeniería Automotriz con Mención en Procesos y Calidad del Servicio Automotriz.

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Análisis de la Implementación de Mantenimiento Centrado en la Confiabilidad en Ambulancias: Un Estudio en el Benemérito Cuerpo de Bomberos de Guayaquil.

Guayaquil - Ecuador



costos de mantenimientos y el 60 % de los fallos totales, fueron las que sirvieron para la continuación del análisis. A través de análisis de disponibilidad y criticidad se identificaron las unidades que están representando fallos catalogados como críticos y las subsiguientes unidades que se deben realizar un cambio en su gestión de mantenimiento con el fin de lograr a futuro una mejor disponibilidad y con menores costos.

Palabras clave: Mantenimiento centrado en la confiabilidad, ambulancias, análisis de criticidad, unidades, plan de mantenimiento.

Abstract:

In the present study, the analysis of maintenance was carried out in the ambulances of the Benemérito Fire Department of Guayaquil, which fulfill the function of pre-hospital care and mobilization in emergencies, and it is vitally important that these units have high reliability. That is why this methodology was used to identify the most critical units, which have the highest number of failures and also generate high maintenance costs. The Pareto diagram and an analysis of accumulated costs vs accumulated failures were used, where it was divided into three groups of units. The section of units that has to do with almost 80% of the maintenance costs and 60% of the total failures were the ones that served for the continuation of the analysis. Through availability and criticality analysis, the units that are representing failures classified as critical and the subsequent units that must make a change in their maintenance management were identified in order to achieve better availability in the future and with lower costs.

Keywords: Maintenance focused on reliability, ambulances, criticality analysis, units, maintenance plan.