

IDENTIFIKASI POTENSI PENCEMARAN UDARA FASILITAS BENGKEL PRAKTIK JURUSAN PENDIDIKAN TEKNIK OTOMOTIF FT UNY

by Zainal Arifin, Moch. Solikin, Sutiman, Triwanto

ABSTRACT

ABSTRACT

The purpose of this study was to determine the condition of the facility to know the practice of engineering Automotive Education Programs FT UNY and determine the potential air pollution caused by operational facilities engineering practices Education Programs Automotive FT UNY. As the results of preliminary research that has been conducted during 2013 and 2014 where there are obstacles encountered in the development of the practice facilities, especially in program development, maintenance and facility management practices due to limited funds and personnel.

This research approach is qualitative research, with descriptive methods, and techniques using survey research, observation and exhaust emissions testing and documentation. the study population was all the practice facility at the Parent Workshop Automotive Automotive Engineering Education Programs FT UNY.

The results showed that the condition of the practices facilities is still in good condition and worthy life. Potential air pollution caused by operation of the practices facility, overall all the parameters of air pollutants carbon monoxide (CO), nitrogen oxides (NO_x), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), hydrogen sulfide (H₂S), hydrocarbons (HC) still below the quality standards, carbon monoxide (CO) of 0.1399 ton / year. Furthermore, emissions of hydrocarbons (HC) amounted to 0,024 tons / year, NO_x emissions by 0.0077 ton / year, and emissions of particulate matter (PM₁₀) amounted to 0.0002 tons / year, while for SO_x emissions amounted to 0.0000 tons / year., Although the magnitude of these particulates still far below the quality standards established in accordance with the quality standards of ambient air quality in Government Regulation No. 41 of 1999 on air Pollution Control, but the magnitude of these pollutants a significant impact on health, especially the potential direct impact on the decline in the quality of the local environment in the form of health problems for residents in the surrounding areas.

Kata Kunci: *Potential air pollution, practice facilities*