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FINAL REPORT OF DIPLOMA PROJECT

FACULTY OF MECHANICAL ENGINEERING



TYPE OF CORROSION AND
METHOD OF PREVENTION

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OF PREVENTION IN BENGKEL UiTM ARAU**
PROGRAM : DIPLOMA KEJURUTERAAN MEKANIKAL
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Dengan ini disahkan bahawa nama-nama seperti senarai di bawah adalah pelajar Universiti Teknologi MARA Cawangan Perlis, Kampus Arau.

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INTRODUCTION

Corrosion may be broadly defined as the degradation of a material by its environment. The definition would properly include metals, ceramics, polymers, and composites; however, classical corrosion studies deal with the dissolution of metals. All metallic corrosion processes have their basis, electrochemical reactions. Some corrosion mechanisms are primarily electrochemical, whereas other requires the interaction of electrochemical and mechanical forces. There is practically no material, which is corrosion resistant to any corrosive agent. The only question is how much is chosen material is stable for particular material-corrosive agent combination. Most of the practically important corrosion processes (95% or more) occurred in the combination material-ion containing corrosive agent with water and some other dipole solvent. In such circumstances the processes are electrochemical, i.e., they involve the action of charged particles-ions and electrons. The other 5% of corrosion processes occurring in the presence of an aggressive gaseous phase, most often at higher temperatures, and their problems a discussed in this paper. For the theory of corrosion will be describe in the next topic in this report.

In this project, author objective is to determine the type of corrosion that occurs in the mechanical workshop located at UiTM Arau.

The determination of corrosion is done by using human eye and the condition of the surface of equipment or material. The surface difference is important in determining the type of corrosion.

For the prevention of this project it is quit easy because it can applicable in all kinds of corrosion.