

AGE RELATED DIFFERENCE AND MODELLING OF WORK STRESS IN MANUFACTURING INDUSTRIES IN KERALA, INDIA

K. SATHESSH KUMAR¹ AND G. MADHU²

¹Asst.Professor(Sr.Grade),Department of Mechanical Engineering
Federal Institute of Science and Technology
Mookkannoor P.O, Kerala -683577, India

²Professor and Head,Safety and Fire Engineering Division
Cochin University of Science and Technology
Kochi-682022, India

Abstract

This study examines the influence of factors responsible for work stress among the employees belong to different age groups. The total number of participants for the study is 830 and the subjects were selected from profit making manufacturing industrial units in Kerala.. Seven factors were identified with the existing literatures, and in consultation with safety experts for the evaluation of work stress. The instrument developed by using these factors had validity, unidimensionality and reliability. The response rate was 81.3%. It is observed that existence the factors responsible for work stress among all the employees irrespective of age It is also observed that relatively higher amount of demand , low control and low support among 40-45yrs age group. The factor model and structural equation model proposed are equally good in predicting the work stress in manufacturing industries.

Keywords : Work stress, structural equation model, manufacturing industries, factor model.