

Enhance Safety and Efficiency by Controlling and Managing the Slip and Lapse Made by Individuals

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Abstract: The purpose of the project is to identify factor that will cause slip and lapse and to reduce the maintenance error made by workers in slip and lapse. The project will be in quantitative and the instrument used is a survey that will be evaluated for the needs of human error identification in the base maintenance. The survey will be given to the workers of a company in Subang area. The data collected from the survey will be calculated using the SPSS to test the reliability of the question.

Keywords: Maintenance errors, slip and lapse, aircraft maintenance technicians, SPSS

I. INTRODUCTION

Overview

In this research, we analyze the improvement of safety and efficiency for the controlling and managing the individual slip and lapse in the workplace. It is a human error problem and one of skill-based motion error types.

Recognition of human factors leads to an environment that improves quality and continuously guarantees the safety of workers and aircraft, more involvement and responsible worker. More specifically, a small error reduction can benefit the aviation industry.

Statement of problem

Slip and lapse are more general than mistakes because they spend most of the time to implement the actually learned procedure. In other words, the probability of accidentally using a specific step in a learned procedure depends on the context, but it is usually 1% to 5%. It is more likely that you will get lost in one of the steps provided by regulation or problem-solving behaviour. Slip and lapse are distinguished from mistake due to the cause of failure.

Objectives

The main purpose of this research is to enhance safety and efficiency by controlling and managing the slip and lapses made by the individual. Dhaman (2016) states that human error (slip and lapse) tend to occur during highly routine activities, when attention is diverted from a task, either by thoughts or external factors [1]. Generally, when these errors occur, the individual has the right knowledge, skills, and experience to do the task properly.

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The task has probably been performed correctly many times before. Even the most skilled and experienced people are susceptible to this type of error.

Scope and limitation

The research is conducted in Aircraft Maintenance Company. Due to the topic is not focusing on any organization or personnel, the questionnaire is on general knowledge on how human negligence can affects in airplane accidents. Thus, it will not consist privacy of any organization and personnel but only questionnaire on general knowledge about how human negligence.

II. LITERATURE REVIEW

If an action is simply left or is not executed, then that error is called an extinct time. "Slip and Lapse Errors are the ones that occur when running an error in a verb sequence or storage phase." The reason is referring to these errors as failures in the modality of action control: at this level, errors happen because we do not perform the appropriate attentional control over the action and therefore a wrong routine is activated. Based on Figure at the skill level, human performance is affected by the stored pattern of preprogrammed instructions [2]. Skill-based errors are related to unintended behavior, glide, and praise. This can happen with the "daily" behavior of the well-known settings.

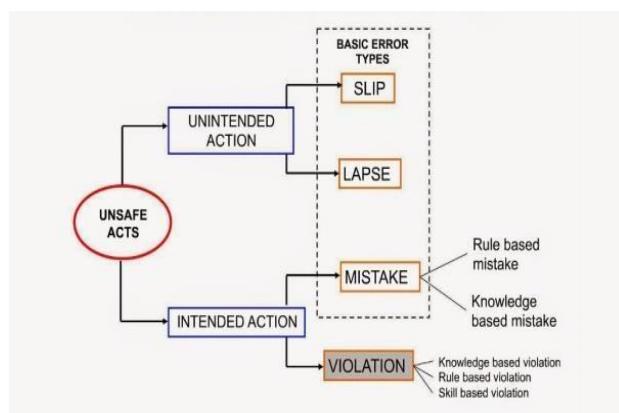


Fig. 1 The model of unsafe act

About one-third of the accident involved an absence slip and lapse.

Skill-based performance requires little mental effort, and in general, there are few errors.

