

# Occupational safety and health (O.S.H) strategies towards green environment malaysia small and medium manufacturing sector

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**ABSTRACT** –In this paper research include the New Strategies practices as a new parameter in order to improve the number of percentages of accident in work place. There are four components as understanding, commitment, practice and behavior influence the improvement of this research towards green environment practices. These research Primary data from 20 S & M manufacturing sector in Melaka was taken through Phone call interview survey on 14-15/12/2017, which are probably due to lack of non-compliance of the requirements of Occupational Safety and Health Act (OSHA) 1994, Environmental Mainstream Tools (EMT). This study is to promote several management practices towards EMT practices

## 1. INTRODUCTION

OSH and Green environment movement in Melaka has been scrutinized due to lack of managing culture and non-compliance of the requirements of Environmental Act, Occupational Safety and Health Act (OSH Act), Factory and Machinery Act and others related Act. This research provided law, regulation practices and tools name Environmental Mainstream Tools (EMT) [12]. EMT has seven elements to measure the compliance of OSH manufacturing workplace towards green environment. The benefits of this practices and tools bring a solution for both parties (Melaka Government and Small and Medium manufacturing sector).

## 2. RESEARCH PROBLEM

The researcher is going to analyses the major problem in S & M manufacturing sector as accident case keeps increase reported accident case in S & M manufacturing rate 50% - 80% higher than big company[1], due to lacking management and conforming to the basic requirement.[2-3], Poor connecting monitoring between industrial and enforcement department,[4-5]. No benchmarking on OSH and environment[6-7], lack of promoting safe work environment and culture practice at workplace[8-9].

## 3. METHODOLOGY

Methods to carry up in this research it will use triangulation data from different material such interview, survey open-ended questionnaire, observation, document study example journal, literature

review, e-book, the research approach is qualitative, exploratory descriptive and contextual. OSH and EMT analysis and practices regulation were used as a method for primary data collection and triangulation analysis were used as a method data collection for Department Of Occupational Safety Health ( DOSH ) enforcement officer effectively.

## 4. RESULT AND DISCUSSION

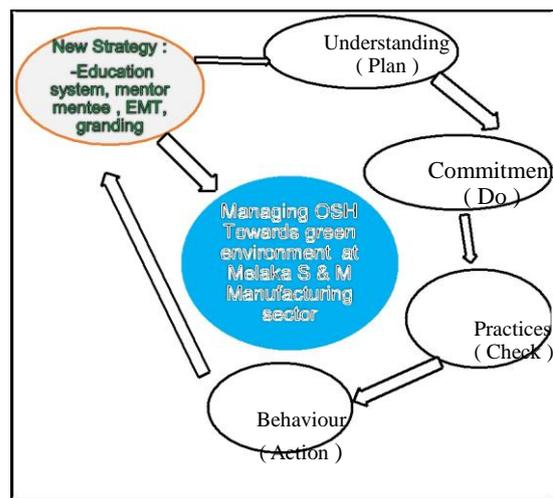


Figure 1 Research design

In this research, understanding is refer to what is the need for the OSH and EMT requirement to practices by the small and medium manufacturing, this stage employers must do some plan base on their mission on OSH, commitment from top management to do what has understanding to do in their OSH example budgeting, and attending OSH meeting or training, for employees commit on what management has plan, follow the regulation with good practices , practice the right procedure in workplace and behavior through understanding and commitment , practice the safe and healthy procedure at the workplace as been plan and do, check to make sure all procedure been implementing is in a right track. Next is monitor all activity are follow by all concern employees and all staff, make sure their behavior and attitude is referring to the organization mission in OSH towards green environment, this is the last stage action on the implementing OSH behavior among their staff and employees or visitor. Through this

framework will create a new strategic in adoption, grading, and education system implementing to strengthens the process continually. In this research, Figure 1 shows a Deming Circle theory be using, Plan (P),Do( D ) Check (C)Action (A)–PDCA by Dr W. Edwards to managing [10] OSH towards green environment at workplace. Environment Mainstream Tools (EMT) has seven elements to measure the compliance of manufacturing workplace towards green environment as (figure 2).

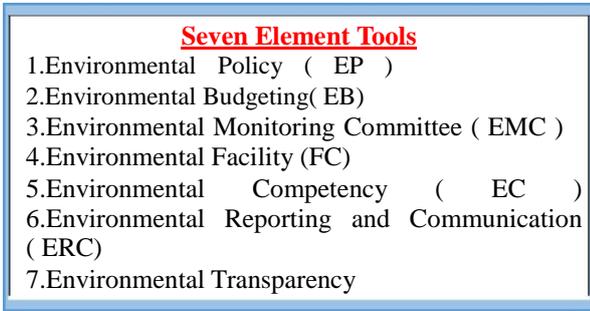


Figure 2 Major Tools.

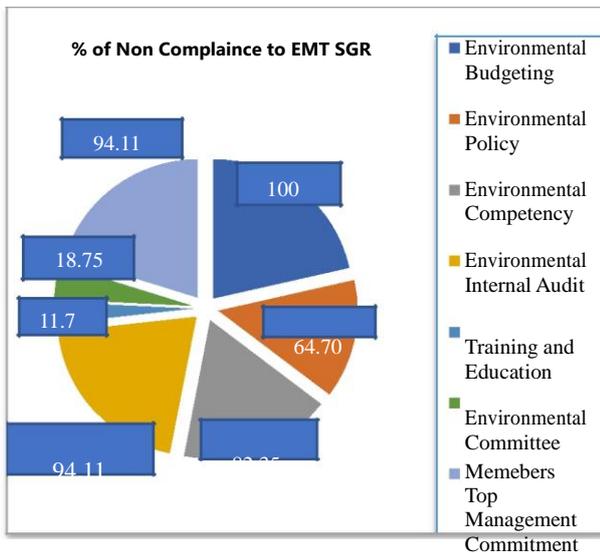


Figure 3 Non Compliance To Activity.

Safety policy is compulsory when organization total employees achieve 5 people, while OSH committee is required when total employees achieve 40 people and above. Training and education in OSH in needed as requested by Occupational Safety and Health Act 1995 Section 15. Top management commitment is the key words to the success of the OSH management system, the key index measurement on this matter is from their OSH policy implementing, OSH budgeting, top management involvement in any OSH activity, Chair OSH committee meeting and setting an active and effective OSH committee member. Environment policy, environment committee and auditing involve to all organization, it under Department of Environmental Director General Order through Guided of Self-Regulation (GSR), it includes Environment Policy, budgeting, monitoring committee facility, competency, reporting, communication and transparency, in this survey it only involve some of the GSR requirement.

## 5. CONCLUSION

The research objective is to investigate the practice of managing conforming to compliance OSH act, Environmental act and others related regulation from time to time, identify collaboration among employees, employers, enforcement department through auditing, creating a new strategy of promoting OSH towards green environment. Promote several management practices such training and safety management. The end of the research is compliance to the regulation of OSH towards green environment

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