

**UNIVERSITI TEKNOLOGI MARA**

**SAFETY CHECKLIST TO MANAGE  
FATALITIES AND ACCIDENTS RISK AT  
TELECOMMUNICATION SITES**

**FARAH AIMI ABDUL RAHMAN**

Dissertation submitted in partial fulfilment  
of the requirements for the degree of  
**Master in Engineering Management**

**Faculty of Mechanical Engineering**

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## AUTHOR'S DECLARATION

I declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. This dissertation has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Post Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Student : Farah Aimi binti Abdul Rahman  
Student I.D. No. : 2014271696  
Programme : Master of Engineering Management –EM704  
Faculty : Mechanical Engineering  
Dissertation Title : Safety Checklist to Manage Fatalities and Accidents Risk  
at Telecommunication Sites  
Signature of Student :  .....  
Date : June 2017

## ABSTRACT

The main objective of this research is to investigate the fatalities and accidents happen to the people working in telecommunication sites in Selangor. Throughout this research also is to identify the risk management practices deployed to minimize the fatalities and accidents happen during people working at telecommunication sites. Another main agenda in this research is to develop safety checklist that minimizes risk for the better working environment at telecommunication sites. Telecommunication and networking are very important services that required by the people lifestyle trends in these upcoming years. The fastest and widest range coverage of network is considering the best telecommunication provider. This enlargement and upgrades needed the telecommunication worker to do lots of work at telecommunication tower, lamp pole, monopole and etc. During the research, relevant research methodology such as pilot survey, questionnaire survey, face to face interview, observation and data analysis are used. The research output is the statistic of fatalities and accidents happened at telecommunication sites within five to ten years is compiled. With the statistic, a profile of accidents working at telecommunication tower is established and main factors and causes of the accidents are captured. From the established statistic a safety checklist is developed. This checklist provides the guidelines that help reduce and prevent the occurrence of accident and fatality. With the developed safety checklist, it is hoped that any activity regarding the safety issue at telecommunication site can be recorded for future development and improvement. In another way, this research also expected to create a safer place for people to work especially at telecommunication sites.

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