

**UNIVERSITI TEKNOLOGI MARA**

**AWARENESS LEVEL ON PERSONAL  
PROTECTIVE EQUIPMENT (PPE)  
TRAINING PROGRAM AMONG THE OIL  
PALM PLANTATION WORKERS  
(A CASE STUDY AT IOI BAHAU ESTATE)**

**MOHD SYahir IZZAT BIN YUSRI**

Final year project report submitted in partial fulfilment of the  
requirement for the degree of  
**Bachelor of Science (Hons.) Plantation Technology and  
Management**

**Faculty of Plantation and Agrotechnology**

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## **APPROVAL SHEET**

This final year project report entitled '**Awareness level on Personal Protective Equipment (PPE) training program among the oil palm plantation workers (a case study at IOI Bahau estate)**' was submitted by **Mohd Syahir Izzat B. Yusri**, in partial fulfilment of the requirement for degree of Bachelor of Science (Hons.) Plantation Technology and Management, in the Faculty of Plantation and Agrotechnology, and was approved by

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## **CANDIDATE'S DECLARATION**

I declare that the work in this Final Year Project was carried out in accordance with the regulation of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. The final year project report has not been submitted to any other academic institution or non academic institution for any other degree or qualification.

In the event that my Final Year Project is found to violate the condition mention above, I voluntarily waive the right of conferment of my bachelor degree and agree to be subjected to the disciplinary rules and regulation of Universiti Teknologi MARA.

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## **ABSTRACT**

The increasing safety and health problem among foreign workers in oil palm plantation estate has created various effects and problem to estate management. One of the main reason that cause the problem is because workers not wearing proper Personal Protective Equipment (PPE). So prevention methods had been introduced by estate management that is PPE training program to all the plantation workers. This study was conducted to study the awareness level of the plantation workers towards the PPE training program that been conducted by estate management. Using the questionnaire method, data was gathered from 155 respondents that comprise of plantation workers from IOI plantation Ladang Bahau, Negeri Sembilan. The Pearson Correlation method was used to test the relationship between the independent variable that is knowledge on PPE and attitude towards PPE training program towards the dependent variable that is the awareness level on PPE training program. The multiple regression method was used to study on the most influencing variable that affecting the dependent variable. The finding shows that both independent variable that is knowledge on PPE and attitude towards PPE training program has high positive relationship towards the dependent variable. Finding also show that attitude towards PPE training program is the most influencing variable affecting the dependent variable. The findings can provide useful information to a better understanding regarding the factor that can influence the workers awareness on PPE training program. Estate management could use the findings to make a proper plan in enhancing the information and plan on how to reduce the safety and health problem at the estate. The limitation, implication and suggestion for future research are also discussed for further research and discussion.

## **ABSTRAK**

Peningkatan masalah keselamatan dan kesihatan dalam kalangan pekerja asing di ladang kelapa sawit telah menyebabkan pelbagai kesan dan masalah kepada pengurusan estet. Masalah biasa yang berlaku di estet adalah kecederaan dan kemalangan di tempat kerja seperti kecederaan oleh tandan dan kecederaan semasa mengendalikan alat atau mesin di ladang. Salah satu sebab utama yang menyebabkan masalah tersebut adalah kerana pekerja tidak memakai Peralatan Perlindungan Peribadi (PPE) mengikut spesifikasi yang ditetapkan. Jadi, kaedah pencegahan telah diperkenalkan oleh pihak pengurusan iaitu program latihan PPE kepada semua pekerja-pekerja ladang. Kajian ini dijalankan untuk mengkaji tahap kesedaran dalam kalangan pekerja ladang terhadap program latihan PPE yang dijalankan oleh pihak pengurusan estet. Dengan menggunakan kaedah soal selidik, data telah dikumpulkan daripada 155 responden yang terdiri daripada pekerja ladang dari ladang IOI Ladang Bahau, Negeri Sembilan. Ujian Korelasi Pearson digunakan untuk menguji hubungan antara pembolehubah bebas iaitu pengetahuan mengenai PPE dan sikap terhadap program latihan PPE terhadap pembolehubah bersandar iaitu tahap kesedaran pada program latihan PPE. Kaedah regresi berganda telah digunakan untuk mengkaji pembolehubah yang paling berpengaruh yang mempengaruhi pembolehubah bersandar. Hasil kajian menunjukkan bahawa kedua-dua pemboleh ubah bebas iaitu pengetahuan mengenai PPE dan sikap terhadap program latihan PPE mempunyai hubungan positif yang tinggi terhadap pembolehubah bersandar. Hasil kajian juga menunjukkan bahawa sikap terhadap program latihan PPE merupakan faktor paling mempengaruhi mempengaruhi pembolehubah bersandar. Hasil kajian ini boleh memberikan maklumat yang berguna kepada pemahaman yang lebih baik mengenai faktor yang boleh mempengaruhi kesedaran pekerja pada program latihan PPE. Pihak pengurusan juga boleh menggunakan hasil ini untuk membuat rujukan yang betul dalam meningkatkan maklumat dan idea bagaimana untuk mengurangkan masalah keselamatan dan kesihatan di estet. Kekangan, implikasi dan cadangan penambahbaikan di masa hadapan juga disertakan untuk perbincangan dan kajian di masa hadapan.