

BEST PRACTICES IN OIL PALM MECHANISATION & AUTOMATION

SPEAKER : HJ. RAHMAT KAMISAN



VENUE: ISP HEADQUARTERS
SUITE 3A01, LEVEL 3A, PJ TOWER, AMCORP TRADE CENTRE
18 PERSIARAN BARAT, 46050 PETALING JAYA, SELANGOR

16 – 17 DECEMBER 2024

INTRODUCTION

Present scenarios in the Malaysian oil palm industry has been a very challenging one with labour shortage issues plaguing the plantation operations for many decades. Thus, the Estate Managers and executives have been tasked to seek and resolve their labour problems by implementing mechanisation as the best measure to achieve management desired goals and objectives.

With the necessity and importance to meet the plantation operation goals and objectives it is imperative for the operation management to be exposed and acquire the latest updates as well as related knowledge to implement mechanisation in their estates expeditiously and decisively.

Upon completion of the program, the participants shall have better understanding on how to facilitate, establish and implement mechanisation in tandem with the aspiration of the top management to resolve labour shortages and improve operation performance for a sustainable business and profitability.

TRAINING OUTCOME

Participant will be able to;

- Gain insights of the latest development and issues which necessitate the implementation of mechanisation in plantations.
- Acquire relevant information and knowledge relating to the appropriate criteria, systems and best practices to facilitate and implement mechanisation in line with top management goals and objectives.
- Able to apply the knowledge in financial and operations planning and shall have better capabilities towards informed decision making to adopt the best options to resolve issues at hand.
- Capable to expedite the implementation process to establish mechanisation and deliver the intended results to reduce labour requirements and improve productivity and operational performance.

WHO SHOULD ATTEND

- Executives to Senior Management that involves in mechanisation & automation
- Anyone that is interested in the subject matter

METHODOLOGY

- ✓ Lecture
- ✓ Q&A
- ✓ Discussion and sharing

Trainer Profile - Hj. Rahmat Kamisan

- ❖ Hj. Rahmat Kamisan presently is a Principal Training Consultant and manage own Skill Training Center which is accredited by the Department of Skill Development, Ministry of Human Resource for Sijil Kemahiran Malaysia (SKM) courses for the oil palm sector.
- ❖ A registered trainer and training provider with Human Resource Development Corporation, Ministry of Human Resources, Malaysia.
- ❖ Previously worked with plantation companies as in Kumpulan Guthrie Berhad and Sime Darby Plantation for more than 25 years in Plantation Mechanisation which include Research & Development and operations.
- ❖ Profession as a qualified mechanical engineer specializing in automotive maintenance, manufacturing and quarrying with vast experience in introducing mechanisation operations and system in the oil palm plantations industry.
- ❖ Since 2008 have been appointed by the Department of Skill Development (JPK), Ministry of Human Resource as industry specialist, panellist and verifier for the Skill Development and Training for the oil palm industry.
- ❖ Had many years' experience as a trainer for mechanisation training and related skill development during his tenure with the Plantation Companies and MPOB for the Intensive Diploma in Oil Palm Management Technology (IDIOPMT).

1. INTRODUCTION

- Overview and background on mechanisation and automation.
- Scenarios on labour issues – past, present and future
- Why the need for mechanisation – confronting the challenges of rising cost and labour issues

2. DEFINITION OF MECHANISATION

- Definition – not merely buying and utilising the machines in the plantations.
- Philosophy – understanding the fundamental – machines versus system
- Critical success factor – the challenges and managing them

3. MAIN FACTORS TOWARDS SUCCESSFUL IMPLEMENTATION OF MECHANISATION

- Land preparation – infrastructure design
- Identification – Soil Types, Area etc
- Landscape and terrain
- Rainfall pattern
- Palm age profile and yield performance
- Selecting the right machines and equipment
- Manpower requirement – division of labour and division of earnings
- Support services – workshop and skill manpower

4. STRATEGY TO IMPLEMENT MECHANISATION

- General understanding and perception towards mechanisation.
- Top management engagement at all level to ensure effective implementation.
- The objectives, goals and common interest.
- Managing change and achievements – critical success factor.

5. ECONOMICS OF MECHANISATION OPERATION

- Harvesting system – criteria to mechanise.
- Main transport network and system – internal and external.
- Infield collection system – system integration.
- Mechanise spraying and fertilizer application and system.
- Factors influencing the adopted system – DOE & DOL.
- Comparison of equipment and machines in the market – identifying main and important criteria.

6. DESIGN AND INFRASTRUCTURE ARRANGEMENT FOR REPLANTING

- Distance calculations for path and carry distance.
- Main and field roads design.
- Drainage system.
- Important criteria for terrace construction.

7. RESTRUCTURING OF OPERATION TO IMPLEMENT MECHANISATION

- Planning and reorganization for implementation.
- Identifying and adopting the best suitable system.
- Budget for development and procurement.
- Focus on Environment, Sustainability & Governance (ESG).

8. MANAGING THE IMPLEMENTATION

- Requirement of financial allocation - procurement of machines and equipment, skill development & training, maintenance facility etc
- Economics and operational performance – productivity, quality and costs improvement.
- Balance and fair division of earnings from division of labour

9. PRESENT NEW TECHNOLOGIES

- New machines in the current market – drone and electric tractors for performance and efficiency objectives.
- Geographical Information System and related services – harnessing new ways of doing things in the present digital era.
 - Design & detail planning for mechanisation– new development and maximizing replanting area – eg. terraced areas.
 - Plantation Inventory – palm count – bunch census – fertilizer recommendation & application - pest & disease monitoring – block tagging.
 - Plant health monitoring – nutrient deficiency – via spectral imaging.

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TERMS AND CONDITIONS

- Request for cancellation must be made in writing.
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- The registration form serves as the official invoice.
- All membership subscription should be paid before the day of the Training to entitle for members' rate, or else, non-members' rate will be applied.
- The Organiser shall not be held responsible for whatever cost (hotel reservation/ flight ticket) incurred by participants.
- The Organiser reserve the right to make changes to courses without prior notice whether in terms of date, time, venue or any other aspects.

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