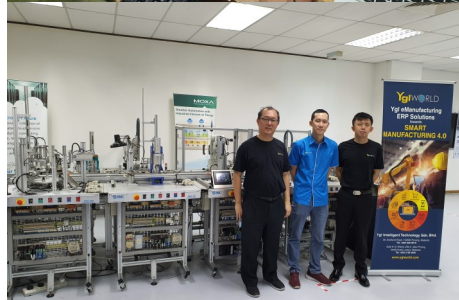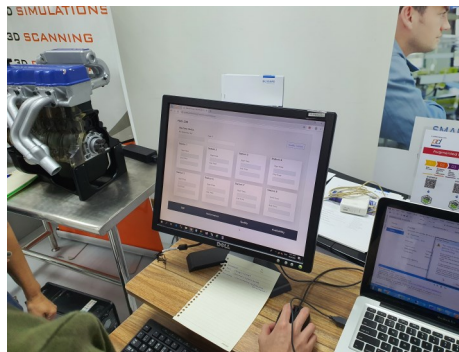## Industry 4.0 Pilot Project at PSDC

YGL collaborates with PSDC to integrate YGL ERP4.0 to SMC FM-200 German machine at Penang Skilled Development Centre (PSDC).

YGL eKanban dashboard is able to calculate the real-time Operational Equipment Effectiveness (OEE) and shown on the dashboard.

e-Kanban and YGL ERP4.0 toward Industry 4.0

The Overall Equipment Effectiveness of an ERP System

The concept of analysing the return on assets also applies to our information systems. **To measure the performance of an ERP using the OEE framework**, we can calculate the following:

Usage Rate / Availability of Functions

X

Quality Rate of Transactional Data

X

Quality Rate of Master Data

How to Calculate the OEE of an ERP?

Usage Rate / Availability of Functions

Many ERP users have limited knowledge of the functionalities available to them. Consequently, this creates underutilisation of the system and results in them completing low value activities. Measuring the system usage rate allows us to determine if any changes are needed to the system configuration or if an update to training is needed in order to **improve the user's efficiency**.

In some cases, the required functionality is simply not present in the ERP system. If too many important features are missing, it might be a great idea to re-evaluate your current ERP system. Experience shows us that more advanced systems generally have the necessary functionalities needed, and there is little need for custom workarounds.

As an example, imagine a company that is currently using and disposing of 180 out of 200 available features that are important to their business. Their ERP usage rate would be 90%.

Quality Rate of Transactional Data

Once you've assessed the use of your ERP system functionalities, you must ensure that the data on which its functions are based are accurate. Quantities of stock, production orders and delivery orders are examples of supply chain inputs which must be accurate for the ERP system to work correctly.

For example, if 48 out of 60 items of transactional data are accurate, then their input data quality level would be of 80%.

Quality Rate of Master Data

Like we said before, the functionalities of an ERP take their foundation from Master data. It's imperative that this data remains accurate and updated throughout time. The determination of the values of Master Data is certainly a key element, but the frequency on which we update this information is essential.

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