

CHI Learning & Development (CHILD) System

Project Title

E-TRAIN – Electronic -Training Requirement and Accreditation Input for Nursing

Project Lead and Members

Project lead: Lai Foon Wan Anne

Project members: Leong, P., Kaniparampil, R., Ng, G L., 2Chua, J., Huang, J.Y., Leong,

A.

Organisation(s) Involved

Yishun Health, Khoo Teck Puat Hospital

Healthcare Family Group(s) Involved in this Project

Healthcare Administration

Applicable Specialty or Discipline

Healthcare Administrators

Project Period

Start date: Not Indicated

Completed date: Not Indicated

Aims

They aimed to organize and automate DSC training record system by automating records capturing, application and approval process by leveraging on IT technology.

Background

An electronic competency assessment and training record platform will ensure that all employees receive adequate practical a. nd theoretical training to meet the demands of the profession and industry. However, these development programs are often not documented effectively. The team explored a customised program.

CHI Learning & Development (CHILD) System

Methods

See poster appended/below

Results

See poster appended/below

Conclusion

E-TRAIN is a systematic and organized training record management system, proven

workable and a sustainable solution. In conclusion, the E-TRAIN is beneficial as it

optimised resource utilization, increased staff productivity and reduced cost and

improved safety, improved the quality of training records management, increased

value for money and effective patient care and improved safe-keeping of professional

knowledge and skills in the long run.

Project Category

Organisational Leadership

Knowledge Management, Knowledge System, Record Management

Keywords

Electronic Competency Assessment, Theoretical Training, Staff Training Management

System, Affinity Diagram, Process Standardization, Staff Orientation, Refresher

Training, Mistake Proofing

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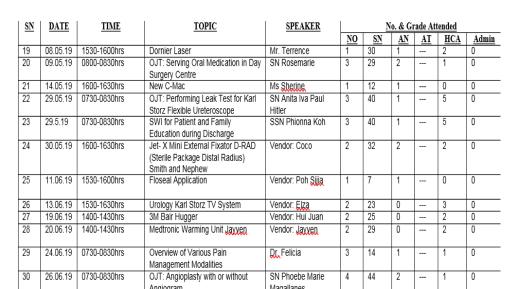


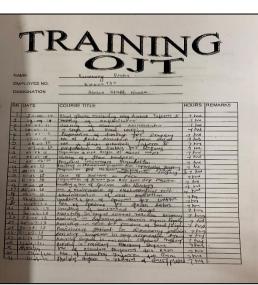
E-TRAIN – Electronic -Training Requirement and Accreditation Input for Nursing

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Background and Aims

An electronic competency assessment and training record platform will ensure that all employees receive adequate practical and theoretical training to meet the demands of the profession and industry. However, these development programs are often not documented effectively. The team explored a customised program. They aimed to **organize and automate** DSC training record system by automating records capturing, application and approval process by leveraging on IT technology.







(Monthly Summary and Manual Training Records)

(Staff Training Components)

As Is: Each staff's personal file contains past training experiences. When staff attends training, the details are recorded manually. Training hours and places are calculated manually on a monthly basis.

To-Be: Staff training management system to be re-organized and automated.

Methodology

The team had focused group discussions. Using the **Affinity Diagram**, the possibilities, advantages and downside of the E-TRAIN system were outlined.







(Focused group discussion with Affinity Diagram was done)

Lean 6-sigma DMAIC approach:

Define - stakeholder's focused group discussion, collaborative leadership and influencing strategies to consolidate points for decision making. **Two main phases include**, (1) using the Affinity Diagram, outlined the possibilities, advantages and downside of the E-TRAIN system. (2) Adoption of the new training record system customized to meet the needs of the nursing teams in the department.

Measure the ground problems by quantifying the training record load, time required and costs involved. The team also gathered baseline data for further monitoring.

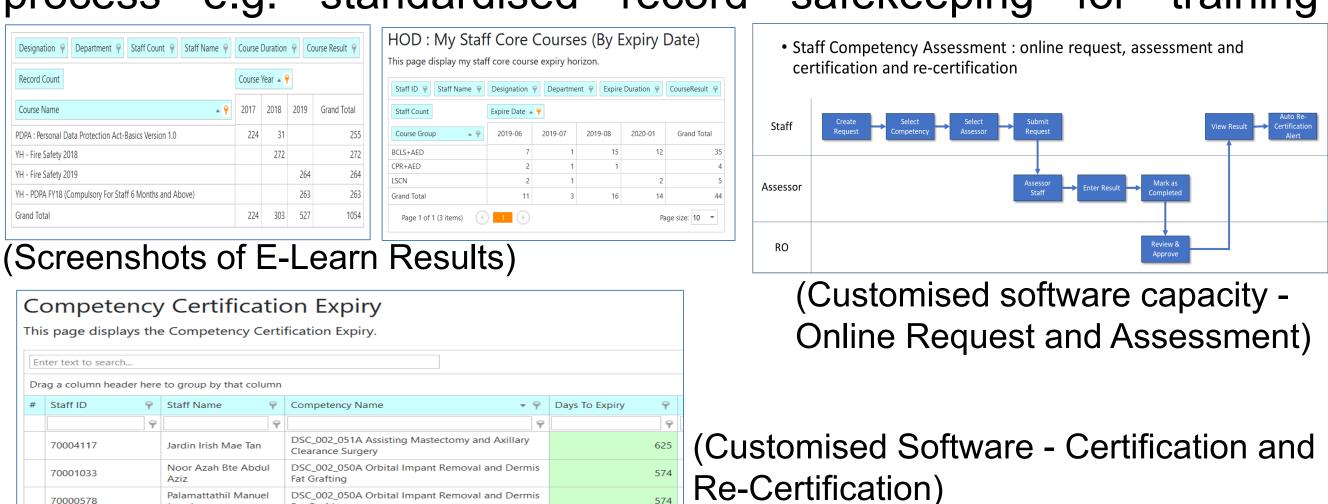
Analyse the gaps in the new workflow, organized facts, opinions and issues

Methodology cont'

Improve through, removing all hassle steps in the training records safe-keeping workflow and recording all training information and setting up approval-based system in E-TRAIN.

Control plan for sustainability - Process Standardization

Control plan for sustainability - Process Standardization, Training champions to facilitate the new workflow, Staff Orientation and Refresher Training, Mistake proofing the process e.g. standardised record safekeeping for training



Results and Project Impact

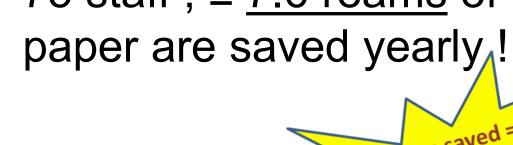


developed!

E-TRAIN is



Green Savings is achieved ≥ 3750 paper sheets/ year for 75 staff, ≥ 7.6 reams of white



Time Savings is achieved

Cost Savings is achieved

S\$x00,000

(Estimated 5-6 figure for a

basic program)

S\$0 cost incurred for a

customized program

Application

External Vendor

Internal Colleague

			V
Initiatives / Measurement and Impact	Hospital's savings	Patients' savings and care	Productivity
E-TRAIN	Much reduced time in retrieving information from hardcopy files and other different sources (reduced from hours to minutes).	Manpower is more focused on patient care as the process is streamlined.	Staffing situation is more concentrated and productive.

Cost Avoidance is achieved

Initiatives / Measurement and Impact	Hospital's savings	Patients' savings and care	Productivity
E-TRAIN	High cost required to build the customised application is negated.	Operational cost is contained.	Maximise and effective use of operational cost by leveraging and expand usage of application.

Sustainability and Follow-Up

Sustainability Plan is sustained through 6-sigma approach

Process Standardization for training system and recording methods
Equipment Maintenance - software operationally ready
Standardized Operating Procedures for training management

system.

Orientation Program: supervised learning for all new nurses.



Change Methodology to follow up E-TRAIN

Unfreeze: For staff newly nominated to be trained we apply "unfreeze"

Change: For existing staff, we encourage and provide continuous training support

Refreeze: Continuous monitoring to close gaps

Conclusion

E-TRAIN is a systematic and organized training record management system, proven workable and a sustainable solution. In conclusion, the E-TRAIN is beneficial as it optimised resource utilization, increased staff productivity and reduced cost and improved safety, improved the quality of training records management, increased value for money and effective patient care and improved safe-keeping of professional knowledge and skills in the long run.