

Streamlining the Process of Competency Assessment in Major Operating Theatre



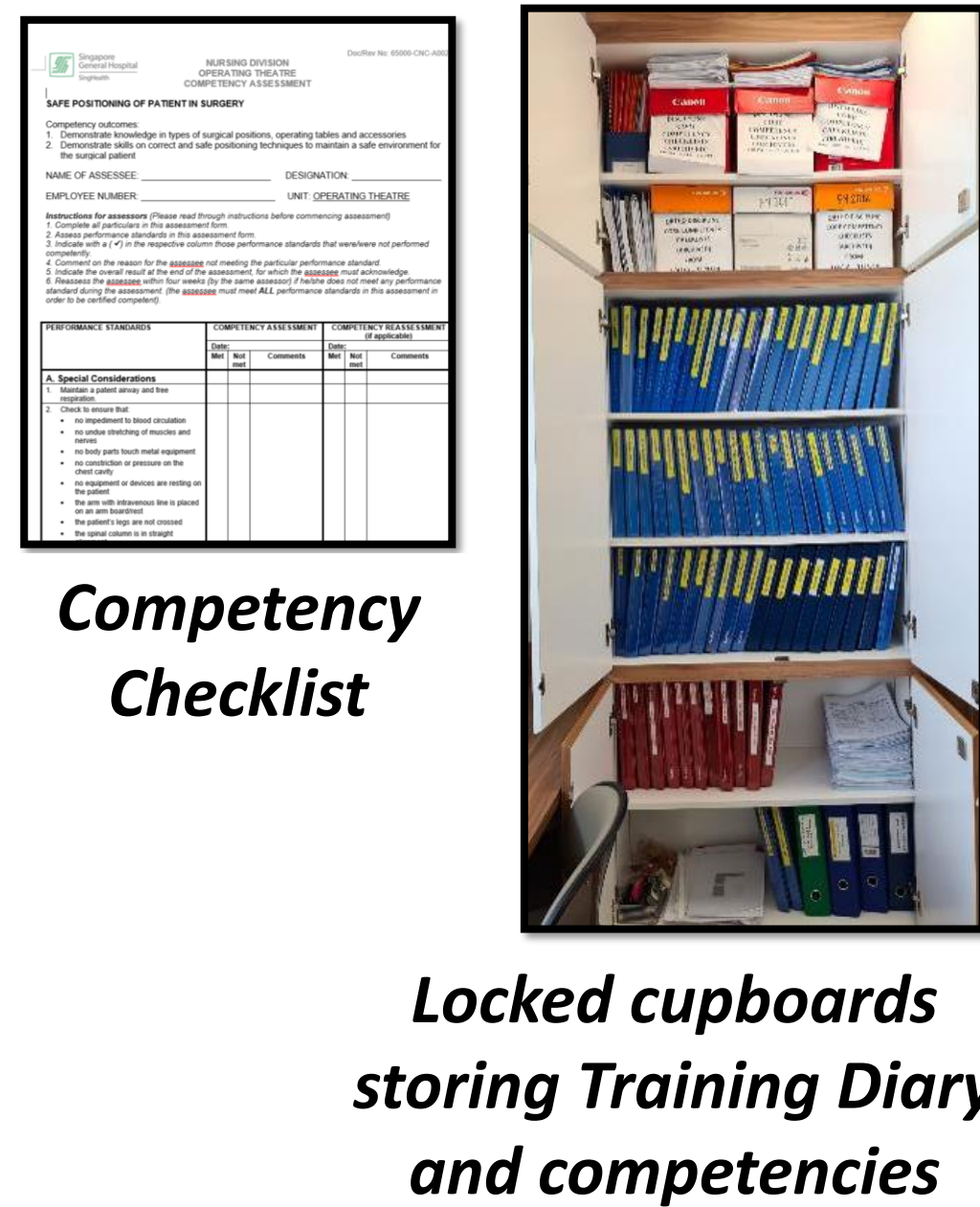
Singapore Healthcare Management 2023

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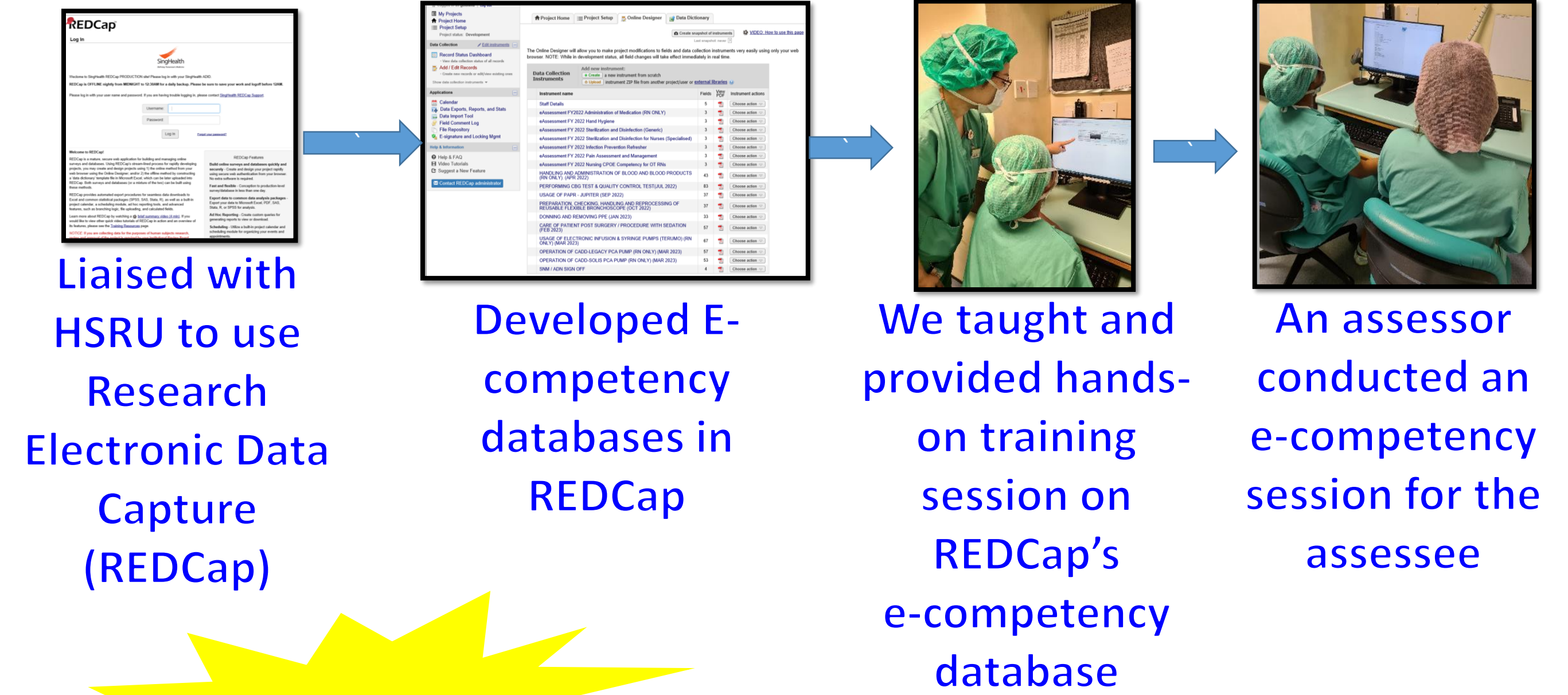
1. Major Operating Theatre (MOT) 2. Anaesthetic Unit (AU)
3. Sterile Supplies Unit-SGH (SSU-SGH) 4. Health Services Research Unit (HSRU)

Introduction

Nurses and ancillary staff must undergo skills and knowledge assessments yearly, to ensure competency and safe perioperative care to surgical patients. One competency completion for one staff requires 90mins. Five hundred MOT nurses have to complete a total of nine core competencies (via observation and demonstration) per financial year, taking approximately 13.5 hours. This is time consuming and labour-intensive. Additionally, there is a massive load of printed competency papers needing storage space.



PDSA III



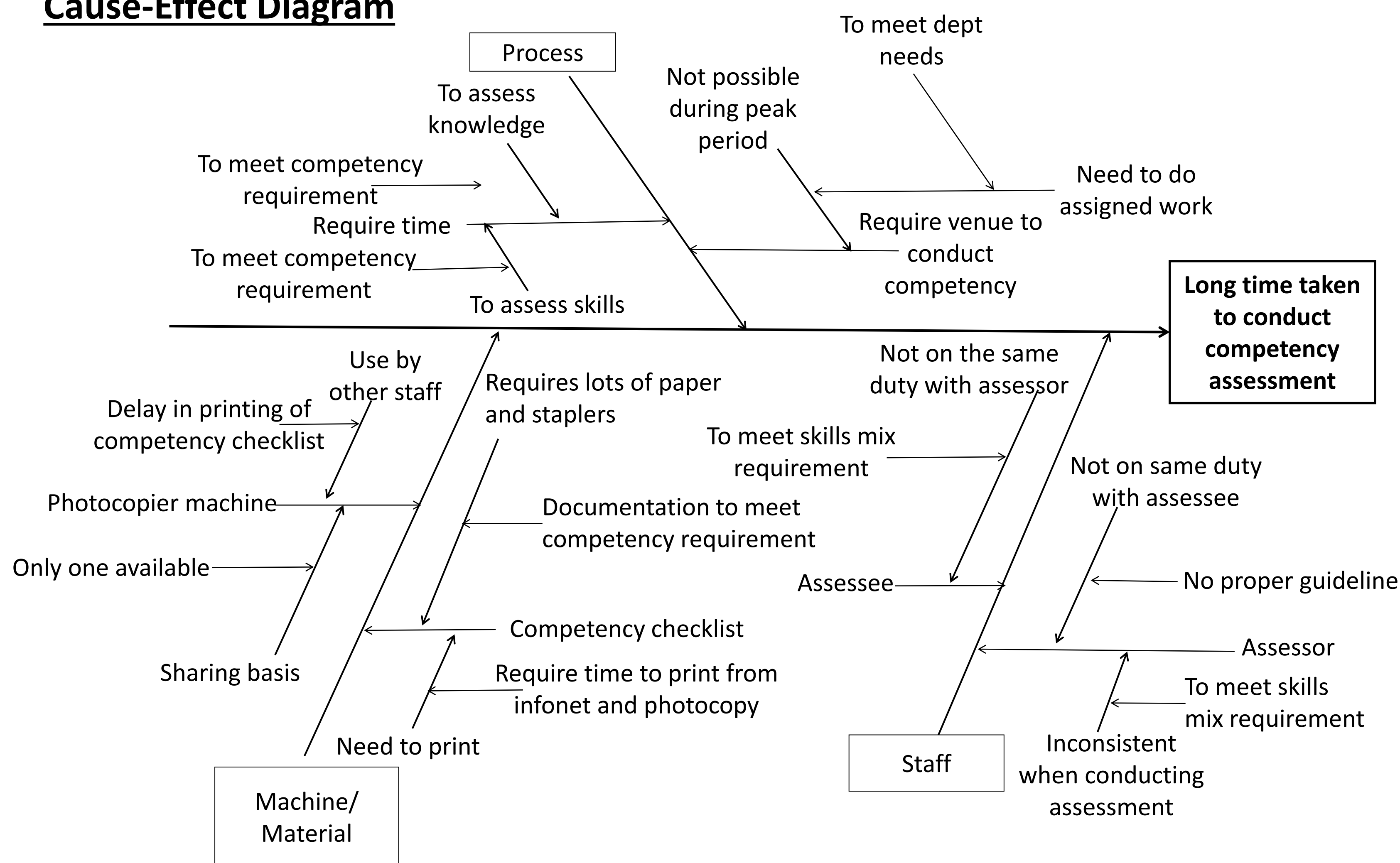
Objectives

To reduce the time taken to conduct competency for nurses in Major Operating Theatre from 90 minutes to 60 minutes within the next six months.

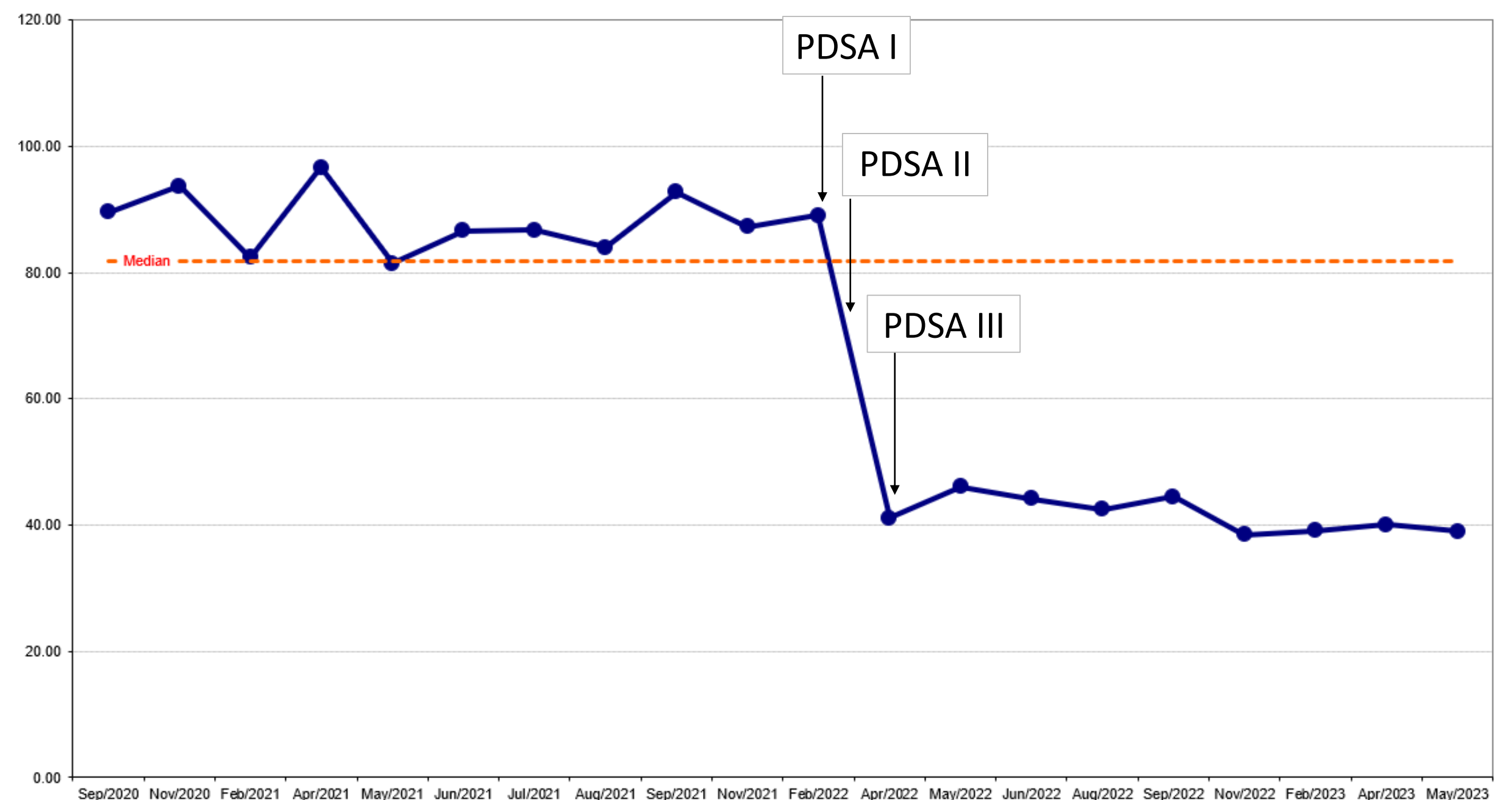


Root Cause Analysis

Cause-Effect Diagram



Minutes Taken Average time taken for RN to complete a competency



Note: Competencies are not scheduled for January(2021,2022,2023), March(2021,2022,2023), July(2021,2022), October(2021,2022) and December(2021,2022).

Time taken to conduct competency assessment has been reduced to 41.47 mins. We have met our project target.

Tangible Benefits

Manpower:

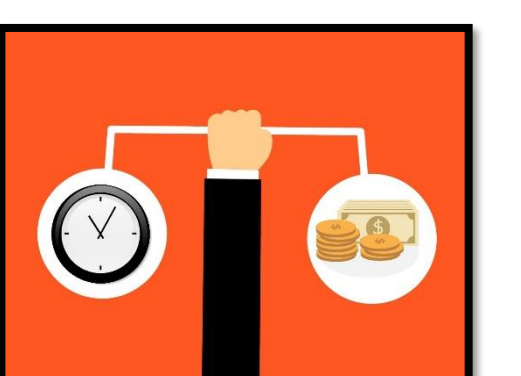
- ✓ Time savings for one staff per year = 373.23 mins.
- ✓ Manpower cost savings = \$246.33/year.
- ✓ Projected (based on 500 nurses) Time Savings = 186615 minutes

Total Manpower Cost Savings = \$123,165.90/year.

Consumables Cost Savings:

38 pieces of papers/staff; 19000 pieces of papers/500 staff.

Total cost savings of \$256.88



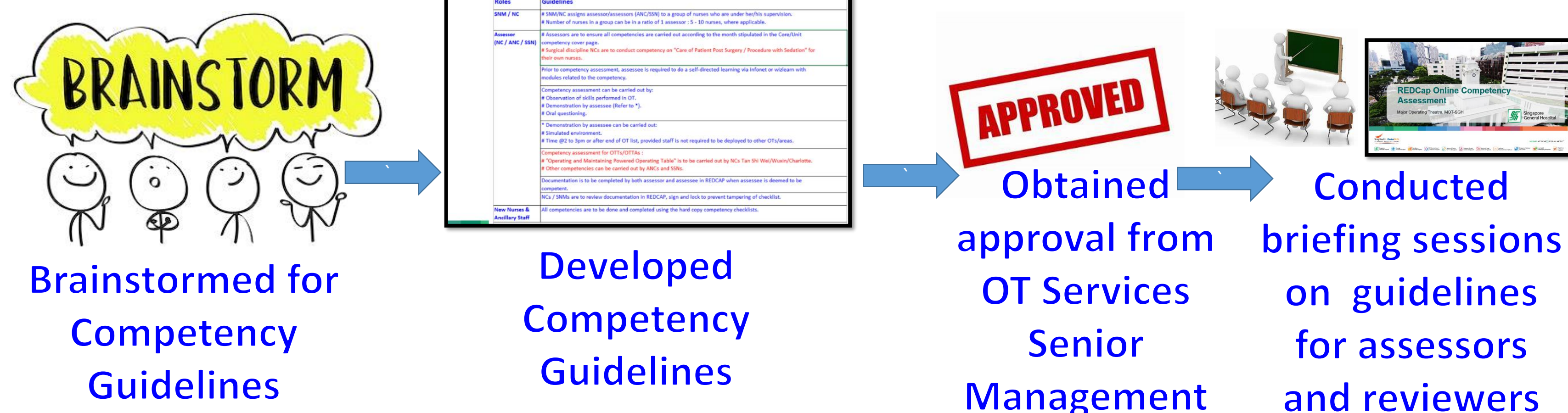
Intangible Benefits

- ✓ More time for patient care.
- ✓ Competency checklists using Redcap documentation are easily available via desktop computers and laptops. Additionally, savings in resources such as printer toner and stationery as no printing of competencies. Also, storage space to hold these competencies are not required and can be used for other purposes.

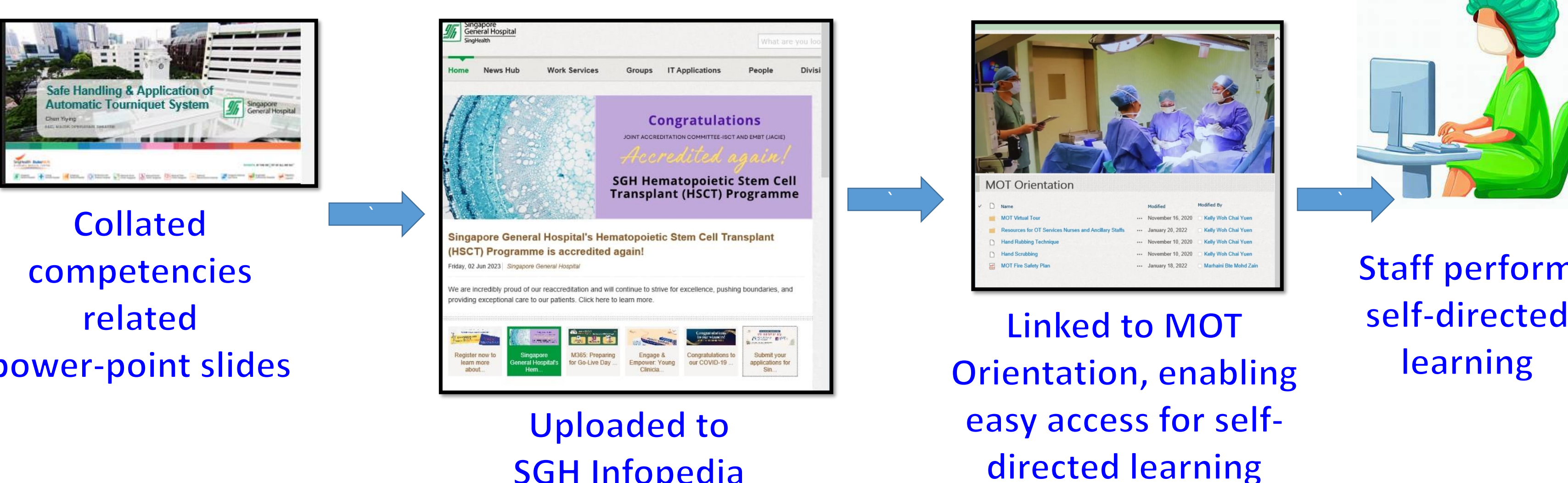


Implementations

PDSA I



PDSA II



Sustainability Plans

Team members continue to monitor and update the REDCap. This program enables tracking and monitoring of staff competencies. Prompt action can be taken and reminders to MOT nurses and supervisors during monthly meeting.

Conclusion

This project helps to meet SGH's quality priorities of professionalism by doing our job to the best of our ability and doing our best as a team. It also promotes efficiency by making full use of resources to improve our processes and outcomes.

In the process, lots of papers saved, meeting our hospital and nation's green initiatives to prevent wastage, reduce carbon footprint and protect the global environment.

We shared this initiative and helped nurses in Ambulatory Surgery and Urology OTs in streamlining their competency assessment. Now, together with HSRU, we are facilitating nurses from the Ambulatory Endoscopy Centre (AEC), Inpatient and Lung Endoscopy Centre (ILEC), to develop their competency databases in REDcap.

