Strategic Priority: SP3- Organizational Sustainability

Project Name
Enhance Mean Time To Repair Medical Equipment MTTR.

Site	Department
Riyadh	Clinical Engineering

Project Status	Project Start Date	Project End Date
Completed	05-01-2018	10-31-2018

Problem: Why the project was needed?
KFSH & RC have a large installed base of medical equipment in Operating Rooms (4141 tags) that is the essential for its main functions operation. Availability and maintainability in most cases are vital and need initiatives to enhance the equipment uptime. One of the matrices is Mean Time To Repair (MTTR) which will measure the maintainability of repairable medical equipment

Benefits/Impact: What is the improvement outcome?
(check all that apply)
☐ Contained or reduced costs
☒ Improved productivity
☒ Improved work process
☒ Improved cycle time
☐ Increased customer satisfaction
☐ Other (please explain)
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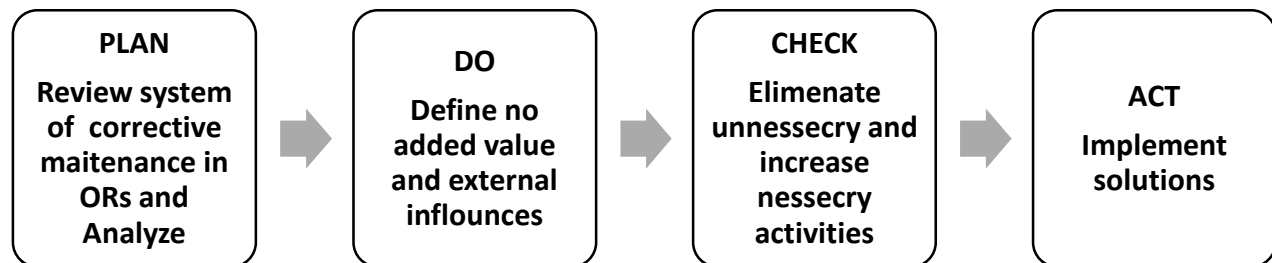
Aims: What will the project achieve?
To reduce MTTR average value in the Operating Rooms Level 2 and 4; by 15% from baseline of 6.5 hours. by the end of 2018 and sustain it in the next 3 years.

Quality Domain: Which of the domains of healthcare quality does this project support?
(Select only one)
Efficient

Measures: Performance metrics to be evaluated	Targets: Expected outcomes
Mean Time To Repair (MTTR) Value	15% decrease from the baseline

Interventions: Overview of key steps/work completed

| PLAN	DO	CHECK	ACT
Review system of corrective maitenance in ORs and Analyze	Define no added value and external influnces	Elemenate unnessecry and increase nessecry activities	Implement solutions

- Reduce communication time with the end-user.
- Prioritize Corrective Maintenance job orders based on the availability of spare part.
- Schedule a planned ordering of spare part, that frequently and continuously needed, based on manufacturer's recommendation and engineers' experience.

Results: Insert relevant graphs and charts to illustrate improvement pre and post project
(insert relevant graphs, data, charts, etc.)

- **Data collected during 2017 and 2018 for the same period (April to September):**

MTTR In Period in hours	Before PI Project 2017	After PI Project 2018
Average MTTR in Period in hours (April - September)	15:08	8:48
Reduced Time in hours		6:20
Percentage of Improvement		41.85%

Comparing Average MTTR in Period in Hours (Between April - September 2017 & 2018) Before & After PI Project
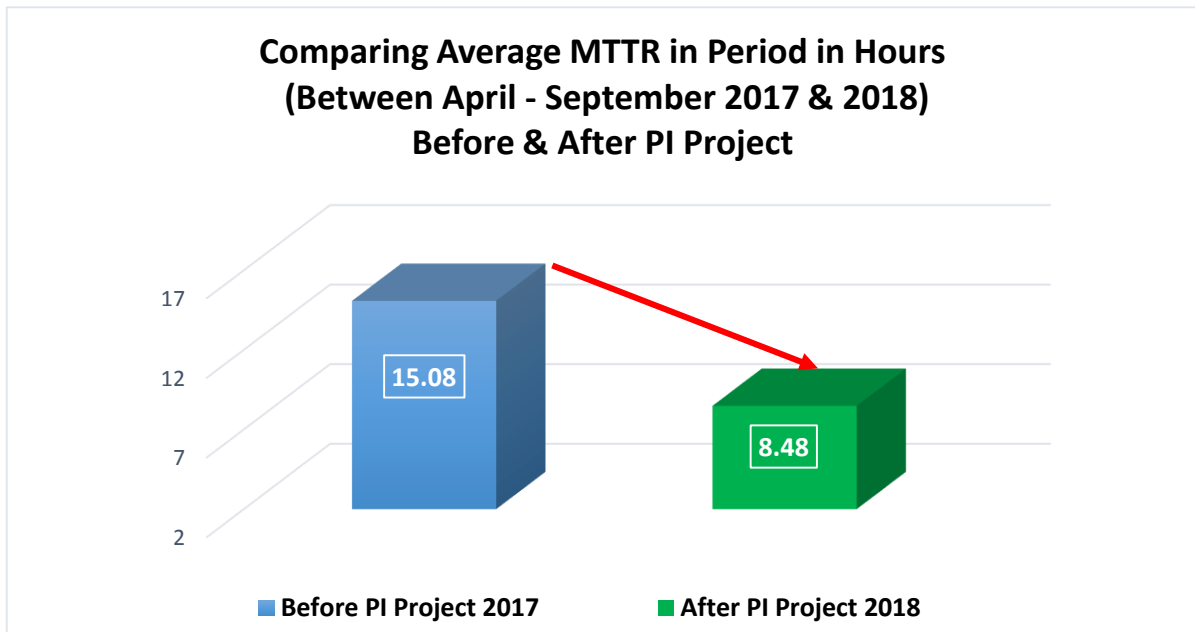
Project Lead	Team Members
Name *(person accountable for project)*	**Names** *(persons involved in project)*
Usama Hassan, Senior Clinical Engineer, Group Leader	Waleed Abu Haimid, Chief Clinical Engineer, Member
	Raphael Velasco Clinical Engineer, Member
	Abdulrahman Alzoman Clinical Engineer, Member