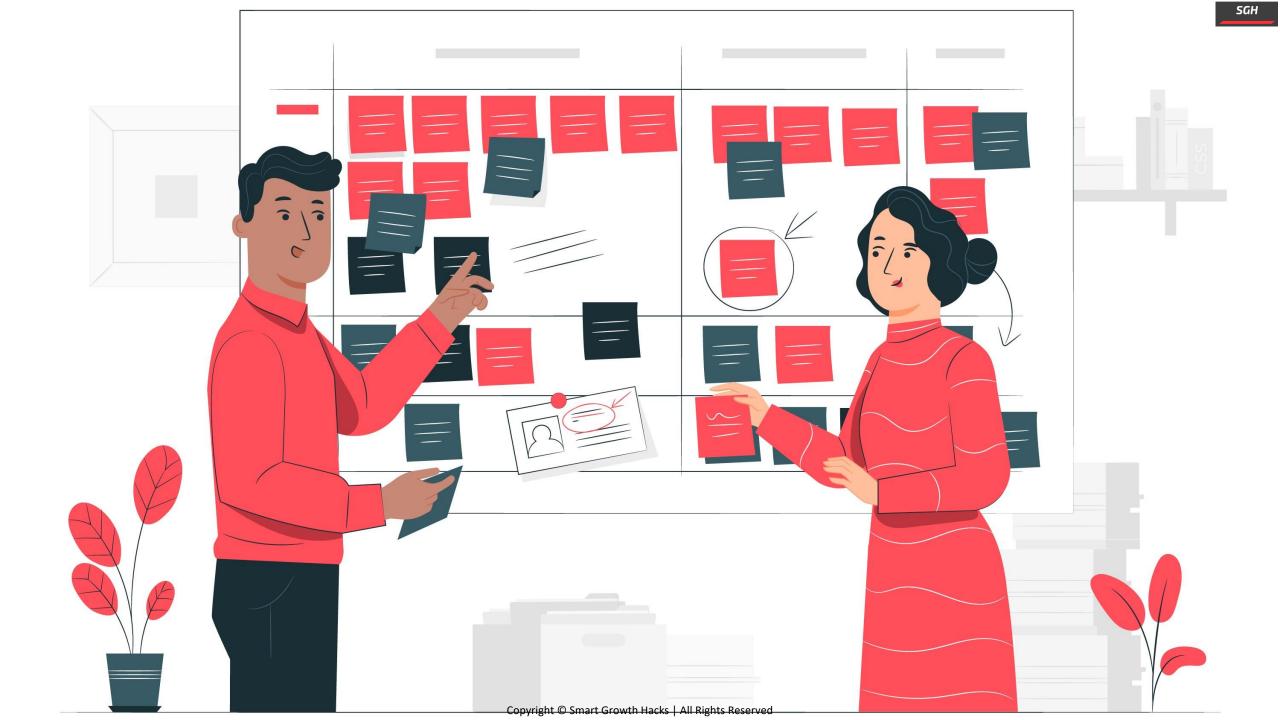


LECTURE

WHAT ARE THE 7 BASIC TOOLS OF QUALITY?

SIX SIGMA WHITE BELT









QUALITY IS EVERYONE'S JOB

HOW TO ENSURE EVERY EMPLOYEE KNOWS EACH QUALITY IMPROVEMENT TOOLS?



Fishbone Diagram



Check Sheet



Control Chart



Histogram



Pareto Chart



Scatter Diagram



Stratification



IN THIS SECTION, YOU WILL LEARN

WHAT ARE THE SEVEN BASIC TOOLS OF QUALITY?

BRIEF INTRODUCTION TO EACH TOOL

HISTORY OF THE SEVEN BASIC TOOLS OF QUALITY



Fishbone Diagram



Check Sheet



Control Chart



Histogram



Pareto Chart



Scatter Diagram



Stratification



WHAT IS THE FOCUS OF THE SEVEN BASIC TOOLS OF QUALITY?

FOCUS OF 7 QC TOOLS

- IDENTIFY ROOT CAUSES
- COLLATE DATA
- STREAMLINE PROCESSES
- HAVE A POSITIVE IMPACT ON QUALITY

ARE THE SEVEN BASIC TOOLS OF QUALITY GRAPHICAL OR STATISTICAL TOOLS?



THESE ARE GRAPHICAL TOOLS DESIGNED TO SOLVE QUALITY ISSUES AND PROVIDE QUICK FIXES TO BUSINESS PROBLEMS

WHY ARE THESE CALLED THE "BASIC TOOLS?"



THESE ARE SIMPLE TOOLS AND DO NOT REQUIRE **COMPLEX STATISTICAL UNDERSTANDING**

WHAT ARE THESE SEVEN BASIC TOOLS OF QUALITY?



Fishbone Diagram



Check Sheet



Control Chart



Histogram



Pareto Chart



Scatter Diagram



Stratification





Fishbone Diagram



IS A VISUAL TOOL

HELPS IN ORGANIZING IDENTIFIED ROOT CAUSES INTO DIFFERENT CATEGORIES



Check Sheet



CHECK SHEETS ARE DATA COLLECTION FORMS

DESIGNED TO COLLATE DATA IN SPECIFIC FORMAT

HELPS IN MINIMIZING ERRORS DURING DATA COLLATION

ALSO HELPS IN REDUCING THE TIME NEEDED TO SCRUBBING AND CLEANING THE DATA







CONTROL CHARTS ARE USED TO MONITOR THE PROCESS PERFORMANCE OVER A PERIOD COMPARE THE DATA WITH HISTORICAL RECORDS

IDENTIFY IF THERE ARE ANY SPECIAL CAUSES PRESENT IN YOUR BUSINESS PROCESS



Histogram



HISTOGRAM IS A FREQUENCY DISTRIBUTION DIAGRAM.

HELPS IDENTIFY IF YOUR DATA IS FOLLOWING A NORMAL DISTRIBUTION OR ANY OTHER DISTRIBUTION



Pareto Chart



A PARETO CHART HELPS IDENTIFY THOSE 20% CAUSES THAT HAVE 80% EFFECTS IT IS A ROOT CAUSE ANALYSIS TOOL



Scatter Diagram



A SCATTER DIAGRAM HELPS UNDERSTAND THE IMPACT OF ONE OR MULTIPLE INDEPENDENT VARIABLES ON A DEPENDENT VARIABLE

IT HELPS DEFINE THE RELATIONSHIP OF THE VARIABLES IN DISCUSSION



Stratification



STRATIFICATION IS USED TO SEGREGATE DATA BASED ON ITS SOURCES
IN SOME BOOKS OR CONTENT, STRATIFICATION IS REPLACED BY FLOWCHARTS OR RUN CHARTS

WHAT IS THE HISTORY OF THE SEVEN BASIC TOOLS OF QUALITY?

HISTORY OF THE SEVEN BASIC TOOLS OF QUALITY

DEVELOPED AFTER WORLD WAR II

KAORU ISHIKAWA INTRODUCED THESE TOOLS IN ONE PACKAGE AND THE BRAND NAME

INSPIRED BY THE SEVEN WEAPONS OF BENKEI



WHO IS BENKEI?

WHO IS BENKEI?

KNOWN AS THE WARRIOR MONK OF THE ANCIENT JAPANESE ERA

HE ARMED HIMSELF WITH SEVEN **WEAPONS**

HE CARRIED THESE WEAPONS ON HIS **BACK WHEREVER HE WANDERED**



Source: https://en.wikipedia.org/wiki/Benkei

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