

COURSE TITLE

GR&R STUDIES (MEASUREMENT SYSTEM)

Introduction

GR&R Studies is a method for evaluating and quantifying an existing gauge or inspection system. It determines if an inspection method or equipment produce acceptable, marginal or unacceptable results. It is often taken for granted that inspection results are true values with no errors. In reality, all inspection or gauge results are subject to variation. It is a required component for calculating process validation, and the acceptability level for a production process.

Course Fees

Member: \$782.62
Non-Member: \$867.64

All fees stated are inclusive of Registration Fee & 9% GST

OBJECTIVES

Application of Gage Repeatability and Reproducibility (GR&R) Studies can give rise to the following benefits:

- A criterion to accept new measuring equipment
- A comparison of one measuring equipment against another
- A basis for evaluating a gauge suspected of being deficient
- A comparison for measuring equipment before and after repair
- Assess the impact of GR&R on Process Capability Studies



**SINGAPORE
QUALITY
INSTITUTE**

WHO SHOULD ATTEND

This course is particularly suitable for and beneficial to Engineers, Supervisors, Process Specialists or any personnel involved in quality assurance, process control and continual improvement activities.

2026

Course Brochure

QUALITY TOOLS
& TECHNIQUES
- GR&R STUDIES
(MEASUREMENT
SYSTEM)

COURSE CONTENTS

DAY ONE: I

- **Main Concept of Measurement System**
- **Computation Techniques associated with GR&R**
- **Types of Measurement System Variation**
- **Repeatability & Reproducibility (R&R) / Gage Capability**
- **Procedure for determining GR&R & % GR&R**

Day TWO:

- **Computation of % GR&R & its interpretation during application**
- **Use of GR&R Data Sheet & GR&R Report Format**
- **Practical Method for reducing Unacceptable GR&R result**
- **Impact of GR&R on Process Capability Studies**
- **Application of Calibration Techniques in Measurement System**
- **Class-room Assignment & Exercises**

TRAINER

This course is conducted by Trainers who are experienced in the areas of organizational business excellence, quality management, change management, risk management, business continuity, project management and auditing.

AWARD OF CERTIFICATE

Certificate of Completion will be issued to participants who have attended at least 75% of the course

DURATION

2 days
9am – 5pm
14 hours



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