



Ascendent Technology Sdn. Bhd.
(1093652-W)



Claimable



SBL Claimable



REPEATABILITY & REPRODUCIBILITY (R&R)

PROGRAMME OVERVIEW:

This 1 day course develops understanding of the Repeatability & Reproducibility through group activities and individual participation that meeting ISO/IATF 16949 clause 7.6 requirements. In general, the participants will gain an understanding of the Repeatability & Reproducibility, its impact on quality systems and able to apply the knowledge in the implementation of ISO/IATF 16949 QMS

TARGET GROUP:

- 1) Quality managers / Quality team leaders
- 2) ISO/IATF 16949 1st, 2nd, 3rd party auditors
- 3) Anyone involved in developing MSA
- 4) Anyone involved in the implementation of ISO/IATF 16949

CONTENT:

- 1) Course Introduction
- 2) Definition for the Term ~
 - 2.1 Accuracy, Measurement Accuracy, Precision,
 - 2.2 True Value, Accepted True Value, Error,
 - 2.3 Characteristic, Gage Accuracy, Gage Repeatability,
 - 2.4 Gage Reproducibility, Rule Of Ten,
 - 2.5 Average/ Mean (\bar{x}), Range®, Standard,
 - 2.6 Deviation.

- 3) Variation Concept
- 4) Measurement Variation.
 - 4.1 Measurement Variation , Variance , Standard Deviation.
- 5) Sources of Variation.
- 6) Repeatability Calculation ,Reproducibility.
- 7) Calculation and R&R Calculation.
- 8) Accuracy and Repeatability.
- 9) Ideal Measurement.
- 10) Exercises and case study.
- 11) Anova.

LEARNING OUTCOME:

At the end of the course, the participant would be able to:

- 1) To understanding the concept and sources of product and process variation.
- 2) Understand and able to differentiate Repeatability and Reproducibility.
- 3) To be able to apply these concept into product design, development or either relevant application fields.

METHODOLOGY :

Lectures, discussion, exercise and group workshop.

CERTIFICATE OF ATTENDANCE:

Certificate of attendance is issued to participants as written document required by ISO quality management system.

CONTACT US FOR MORE DETAILS

- ❖ Public Training
- ❖ In-House Training
- ❖ Customade training
- ❖ HRDF SBL Scheme claimable for private sector
- ❖ e-Perolehan applicable for government sector

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