

BME 420: METROLOGY QUALITY CONTROL & RELIABILITY

MODULE-I -CHAPTER-1 -INTRODUCTION

Definition of Metrology?

Ans: Science of measurement/pure science of measurement

Engineering metrology (Defn):- Measurement of dimension: length thickness , diameter, taper angle flatness straightness profiles and others.

Ex: slideway for machine tool(lathe) it must have specific dimension angle and flatness for its desired function.

Inspection (Defn) checking the dimension of other defects of a part which has already being produced.

New of inspection

1. To ensure that the part material or a component conforms to the established standard. For dimensional control as per specification.
2. To meet the interchangeability of manufacture.
3. To control the performance of man/mk/process.
4. It helps in the process of quality control.
5. It protects the customers in accepting family products.
6. It helps in mass production of assembled part.
7. It helps to assemble various parts produce at different station/place.
8. It provides the means of finding out shortcoming in manufacture.

Sources of errors

1. Calibration error

Each measures instrument should be calibrated with a standard one at certain time interval (may be once in a year once in every 6 months)

If the above procedure is not followed the instrument may give erroneous result, it is called calibration errors.

2. Environmental error

These errors are due to surrounding in pressure temperature and humidity. Internationally agree standard value of temperature pressure are :

(i)

Temperature= 20 c

(ii)

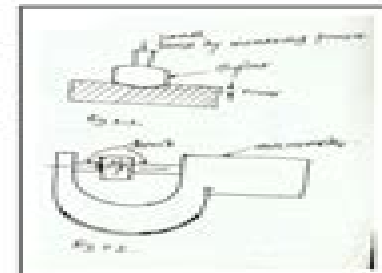
Pressure = 760 mm of Hg + 10 mm of Hg vapour pressure.

If the ambient condition various from the above standard valves the measured value will be erroneous.

3. Contact pressure/ stylus pressure

Errors are also introduced due to pressure exerted at stylus. It is more prominent in case of soft work piece.

Ideally the stylus should touch the top surface of w/p. due to stylus pressure both deformation & deflection of w/p take place. This type of errors are also induced when the force applied on the anvils of micrometer varies.



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