

MITUTOYO OFFERINGS

COURSES:

Dimensional Metrology

August 17 - 18, 2010

This two-day intermediate course is for everyone who is currently engaged in the production activities. Objective of this course is to increase and expand the knowledge base of each student in precise measurement (Metrology) and add skill and confidence in dimensional measurement. It is generally assumed that the student is already familiar with measuring gages. The class starts with the granite surface plates and immediately moves into the comparison gages and comparison methods in a high-production setup. In two days, this course will cover most subjects needed for QC or QA engineers. Height gages and height standards, and more gages will follow. How to measure some of the GD&T symbols with or without a CMM will be presented. This course will be more in depth in its approach and will move into such items as Surface Roughness, Roundness, and Hardness testing methods.

Gage Calibration

August 19 - 20, 2010

This introductory course is for anyone who is interested in learning more about the art and science of precise measurement (Metrology). If the student already knows how to use measuring gages, this class will serve as a good review course because the most effective and precise methods will be taught in the class. The course reviews the basics of dimensions both in English and metric, basic measuring instruments such as micrometers and calipers, will be taught. Actual practice, a hands-on session, is included. How to reduce bias and variations in measurements will be demonstrated. This class also covers so-called "attribute gages" such as plugs, pin gages and thread gages, etc. In general, the objective of this course is to introduce students to the world of precision measurement.

Integrated GD&T

August 24 - 27, 2010

This unique GD&T course integrates and combines the learning of GD&T with measurement and inspection techniques. The course gives the participant a practical and easy understanding of GD&T as it applies to the ANSI/ASME Y14.5M-1994 standard, along with some hands-on experience with methods of inspection that are commonly available in manufacturing and quality. The course covers both the basic and mid-level GD&T concepts in easy to understand explanations and uses print reading exercises containing GD&T callouts throughout the program. The student will get some hands-on experience with GD&T through the use of standard measuring tools and inspection equipment. This course is ideal for anybody who measures any GD&T callouts including engineers, quality technicians, and manufacturing machinists. Many interpretations of both GD&T callouts and inspection methods are made. Some may be correct; many are not. This course highlights what is right and wrong and clarifies some common mistakes.

INSTRUCTORS:

Gordon Skattum is an ASQ Fellow and Senior Member of SME with over 35 years in quality and manufacturing technology. He is recognized expert in dimensional metrology, measurement systems analysis, and process control. As a member of the Technical Writing Group for the AIAG, he provides significant contributions to the automotive industry MSA Reference Manual, 3rd edition.

Dave King has over 40 years experience in industry. His background includes completion of a 4-year tool and die apprenticeship, honors graduate of Mohegan College, and is a certified ASQC Mechanical Inspector. As an adjunct instructor in the Connecticut Community Technical College System, he has developed many courses including Print Interpretation, Basic Metrology, Layout Inspection, Operator Certification Programs, and Understanding Metrics. As a project engineer in industry, he has developed numerous manufacturing techniques and processes.

COST/REGISTRATION INFORMATION:

Mitutoyo and its Institute of Metrology is a worldwide organization. Mitutoyo is proud to state that more than 200,000 engineers have attended metrology seminars over the years. If you wish to register please call Jody Glemza @ (630) 978-6469 or go to jody.glemza@mitutoyo.com to find out more about the classes, costs and how to register or visit the website for more details at mim@mitutoyo.com

Location:

These courses will be held at the CAVS Extension facility in Canton, MS which is conveniently located at 153 Mississippi Parkway, Canton, MS. For more information please visit cavse.msstate.edu.