



## TECHNICAL TRAINING - SWAPPING DOWNTIME FOR PRODUCTIVITY!

### Mechanical Systems & Tools - Syllabus

#### Overview:

This is a course with a difference! It is run in a modern machine shop, co-hosted by two experienced Instructors, one with 30+ years' experience in the many facets of Mechanical Engineering, the other, a Toolmaker who heads up a modern tool room facility, manufacturing parts and products for a worldwide market. Much emphasis of this course is put on cost savings whilst carrying out mechanical repairs by imparting an appreciation to the participants on using the correct tools on sensitive and costly mechanical equipment, develop an attitude for doing the job right the first time, give an understanding of many of the areas in Mechanical Systems found in modern factories and to have participants leave with a more considered outlook when interacting with Mechanical Systems & Tools.

#### Target Group:

- Maintenance Personnel.
- Production / Process Personnel.
- Production & Engineering Supervisors.
- Technical Trainers.
- Technical Sales Personnel.

#### Syllabus:

- Staying Safe in the Mechanical World!
- Engineering Pocket Books.
- The ISO Metric System.
- Tools & Their Correct use.
- Mechanical Measurement.
- Engineering Materials.
- Methodical Dismantling & Re-assembly Practices.
- Lubrication, Friction & Wear (Tribology).
- Mechanical Seals.
- Limits & Fits.
- Drills, Drill Bits & Reamers.
- Screw Thread Technology.
- Screws, Bolts, Nuts & Washers.
- Dealing with Broken / Sheared Studs & Damaged Threads.
- Bearings & their Applications.
- Power Transmission Systems.
- Reading Mechanical Prints.
- Machining Processes.
- Welding Processes [Not Yet Available]
- Open floor discussion session.

#### Prerequisites:

A keen aptitude for all things Mechanical and a willingness to realise the importance of applying appropriate techniques whilst interacting with Mechanical Systems & Tools, coupled with a genuine willingness to learn!

#### Duration:

24 hours (Three 8-hour days)

#### What do you get:

The cost is inclusive of the three days of classroom training and workshop demonstrations, course training manual, Mechanical Systems & Tools resources on USB drive, complimentary measuring gauges (4 off) and all refreshments and meals over the three days.

Further information at: [www.automation.ie](http://www.automation.ie)