

SELECTION, USAGE AND MAINTENANCE OF ENGINEERING TOOLS

Select, Use and Care For Engineering Hand Tools Work

US 12216 – Level 2 (8 Credits)

Select and use engineering hand tools.

- Cutting and shaping hand tools include hacksaws, chisels, files, scrapers, whole punches, tin snips, and anvils.
- Assembly hand tools include hammers, punches, clamps, vices, spanners, wrenches, pliers, screwdrivers.

Care for and maintain hand tools.

- Identify and report unsafe or faulty tools.
- Clean and maintain and store tools.
- Hand tool maintenance includes sharpening, deburring, resetting, derusting, oiling, replacing.

Recognize and report problems, changes and/or malfunctions while working.

- Hand tools used as recommended by the manufacturer to meet job/task requirements.
- Unsafe/faulty hand tools identified and corrective action taken.
- Hand tools cleaned, maintained and stored.

Work safely with due care for self, fellow workers, equipment, materials and the environment.

- Safe working practices include the use of appropriate personal protective equipment.
- Hand tools used as recommended by the manufacturer to meet job/task requirements.
- Unsafe/faulty hand tools identified and corrective action taken.
- Hand tools cleaned, maintained and stored.

Select, Use And Care For Engineering Measuring Equipment.

US 12476 – Level 2 (12 Credits)

Explain and discuss basic units of measure and symbols.

- Identify symbols with international units of measure.

- Basic units of measure include length, mass, temperature, angle, pressure.
- Measuring equipment used as recommended by the manufacturer to meet job/task requirements.
- Measurements are taken and recorded.
- Unsafe/faulty measuring equipment identified and corrective action taken.
- Measuring equipment cleaned, serviced, maintained and stored.

Select and use engineering measuring equipment.

- Measuring equipment includes verniers, calipers, tapes, rules, combination set, spirit level, plumb bob, micrometers, dial gauges, feeler gauges, thermometers, scales, go/no go gauges, thread gauges, pressure gauges.

Care for and maintain measuring equipment.

- Damaged or faulty measuring equipment includes deformities, breakages, stickiness, not zeroing, missing parts, expired calibration.
- Maintenance of measuring equipment includes oiling, setting and calibration.

Recognize and report problems, changes and/or malfunctions while working.

- Basic units of measure, symbols and derived units of measure are explained and discussed.
- Work safely with due care for self, fellow workers, equipment, materials and the environment.

COURSE DURATION: 3 – 5 DAYS