

GENERAL ENGINEERING
FOR
(REF. & A/C AND ELECTRICAL TRADES)

CARPENTARY:

Carpentry material, characteristics of good timber, carpentry tools, marking, measuring and testing tools, cutting tools, saws, chisels, planing tools, Boring tools, Striking tools, Holding and miscellaneous tools, sharpening of saws, chisels and planes, carpentry process, carpentry joints.

FITTINGS:

Fitting tools, Holding tools, striking tools, cutting tools, Types of chisels, Hacksaw Files, scrapers, Drilling tools, measuring, marking and testing tools, Hammers, Vice-blocks, Surface plates, vices, spanners, double-ended-ring adjustable, socket and box Pipe wrenches.

SHEET METAL:

Metal used in sheet metalwork, sheet metal tools, sheet metal processes, soldering Seam making, Folding edges, laying out a pattern, types of rivets, methods of Riveting and types of riveted joints, technical terms used in riveting joints.

WELDING:

Types of welding, welding joints, welding positions , Gas welding-principles. Types of Gas flames, soldering, Brazing , tools used in welding.

ENGINEERING MATERIALS:

Ferrous, Non-Ferrous materials, General material property, Engineering uses of common ferrous and non-ferrous metals and their alloys.

MEASURING INSTRUMENTS AND GAUGES:

Introduction, classification of measuring instruments, types of measuring instruments, principles and uses. Gauges, classification of Gauges, Principles and uses.

COOLANTS:

Coolants and lubrication used for different materials with different operations. Water treatment and chemical parameter of water.

REFERENCE:

1. A textbook of Workshop Technology, R.S.Khurmi and J.K.Gupta, S. CHAND and Company Ltd, 1995
2. A textbook of Production Technology, P.C.Sharma, S. Chand and company Ltd,1996