



TRADESMAN FITTING

Competitive Cracker Pvt Ltd.

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 **8089200474**

**DETAILED SYLLABUS FOR THE POST OF TRADESMAN
(ELECTRICAL IN TECHNICAL EDUCATION
(Cat No: 420/2023)**

DETAILED SYLLABUS FOR THE POST OF TRADESMAN – FITTING IN TECHNICAL EDUCATION (Cat. No.: 763/2021)

(Total Marks -100)

Module-I

10 Marks

MARKING AND MARKING TOOLS

Marking media- Linear measurement –Scribers-Dividers –Datum- Calipers- Types of marking punches-Surface gauge- V' Blocks- Surface plate- marking off table-Angle plates-parallels and Combination set

Module-II

10 Marks

HAND TOOLS AND MEASURING TOOLS

Hammers- Types of vice-C clamp- types of Spanners-pliers-screw driver-Types of Steel rules-

Try square and its types -jenny caliper-straight edge-system of units -Measurements of angles- Angular measuring instruments (Semi - precision) -Measuring standards (English & metric)

Module-III

10 Marks

CUTTING TOOLS AND OPERATIONS

Elements of a file- Cut of files –Grades-shapes- - Types of files- Needle files- Special files- Pinning of files -Care and maintenance -Convexity of files- Filing techniques- Hacksaw frames and blades- types of chisels-scraper-drilling-types of drills-drilling machines-reamers –hand taps-threading dies- Drilling - Cutting speed, feed and r.p.m - drill holding devices -Counter sinking-Radius/Fillet gauge, feeler gauge-grinding-standard grinding wheel marking system-grinding machines.

Module-IV

10 Marks

PRECISION INSTRUMENTS

Micrometers –dial calipers- Vernier calipers -Vernier height gauge- types- working principle- vernier bevel protractor-comparator-measuring errors,Guages-types-slip gauges-angle gauge-sinbar-, Jigs and fixtures- Limits and fits-interchangability-tolerance-allowances-shaft and hole basis system.

Module-V

10 Marks

FASTENERS AND POWER TRANSMISSION

Types of screw threads-fastners-keys-bolts-washers-studs-setscrews-cotters-pins-couplings-circlips-soldering-brazing-rivetting-types of rivets-defects in revetting-taper-springs

Belt and belting-belt fastenings-slip-creep-crowning-dressing-types of gears-clutches-bearings types-bearing materials

TRADESMAN FITTING

NEW BATCH STARTED

CATEGORY NUMBER : 420/2023

OUR COURSE HIGHLIGHTS

- ▶ CLASSES BASED ON NEW SYLLABUS
- ▶ SYLLABUS BASED STUDY PLAN
- ▶ SUBJECT CAPSULES
- ▶ MODEL QUESTIONS
- ▶ PREVIOUS YEAR QUESTION PAPER DISCUSSION
- ▶ DOUBT CLEARANCE SESSIONS
- ▶ MOTIVATIONAL SESSIONS
- ▶ LIVE INTERACTIVE SESSIONS
- ▶ MENTORSHIP PROGRAM
- ▶ TECHNICAL SUPPORT

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Module-VI

10 Marks

METALS AND HEAT TREATMENTS

Ferrous and non ferrous metals-cast iron types-steel making process-types of steels-alloys-heat treatment process- annealing-normalising-hardening process-case hardening-hardness testing-impact testing

Module-VII

10 Marks

FORGING

Forge-Refractory materials-forging hand tools- cuttings tools-anvils-forging of steels-forging operations-defects in drawing out-defects in upsetting

Module-VIII

10 Marks

SHEETMETAL WORK

Types of snips-mallet-sheet metal hand tools-compass- stakes-types-uses - metals used in sheet metal work-sheet metal operations-joints-bending machines.

Module-IX

10 Marks

WELDING

General safety-tools and equipments used in gas welding-gases used in welding-types and uses of oxy-acetylene flames- acetylene gas generators-welding nozzles-melting points of common metals-flashback-backfire-gas welding techniques-joints-arc welding machines-welding defects-inspection of welds

Module-X

10 Marks

LATHE

Parts of lathe-specification of lathe-back gear mechanism-work holding devices-cutting tools-tool angles-cutting tool materials-lathe operations-thread cutting-cutting speed-feed-depth of cut-safety in lathe work

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.



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