

## REVISED SYLLABUS

### EMPLOYMENT NOTIFICATION NO. 01/2021 & 01/2021(A)

NAME OF THE POST	SYLLABUS
<b>WELDER TRAINEE, CAT-I</b>	<ul style="list-style-type: none"><li>➤ INTRODUCTION AND DEFINITION OF WELDING – ELEMENTARY FIRST AID.</li><li>➤ IMPORTANCE OF WELDING IN INDUSTRY – SAFETY PRECAUTIONS IN SHIELDED METAL ARC WELDING.</li><li>➤ GAS WELDING AND FIRE FIGHTING EQUIPMENTS.</li><li>➤ WORKSHOP PRACTICE.</li><li>➤ MACHINE SHOP PRACTICE.</li><li>➤ HANDLING OF MEASURING INSTRUMENTS :<ul style="list-style-type: none"><li>- MARKING OF DIFFERENT JOBS.</li><li>- METALS USED IN FABRICATION.</li><li>- TYPES OF FABRICATION JOINTS.</li><li>- WELDING SYMBOLS.</li></ul></li><li>➤ METHODS OF BENDING PLATES, ANGLE IRON ETC.</li><li>➤ COLD BENDING AND HOT BENDING ETC. –</li><li>➤ BENDING OF ANGLES AND CHANNELS.</li><li>➤ PRESS WORK-FLAME STRAIGHTENING METHODS.</li><li>➤ PIPES AND PIPE FITTING.</li><li>➤ HAND RIVETING, COLD AND HOT – METHODS OF RIVETING.</li><li>➤ DIFFERENT PROCESS OF METAL JOINING METHODS.</li><li>➤ BASIC ELECTRICITY APPLICABLE TO ARC WELDING AND RELATED ELECTRICAL TERMS &amp; DEFINITIONS.</li><li>➤ HEAT AND TEMPERATURE AND ITS TERMS RELATED TO WELDING.</li><li>➤ ARC WELDING POWER SOURCES.</li><li>➤ ADVANTAGES AND DISADVANTAGES OF A.C. AND D.C. WELDING.</li><li>➤ DIFFERENT GASSES USED IN GAS WELDING AND THEIR CHARACTERISTICS.</li><li>➤ ELECTRODE: TYPES, FUNCTIONS OF FLUX, COATING FACTOR, SIZES OF ELECTRODE CODING OF ELECTRODE.</li><li>➤ BRASS – TYPES – PROPERTIES AND WELDING METHODS.</li><li>➤ COPPER – TYPES – PROPERTIES AND WELDING METHODS.</li><li>➤ ALUMINIUM AND ITS ALLOYS.</li><li>➤ CAST IRON AND ITS PROPERTIES TYPES.</li><li>➤ TYPE OF PRESSURE VESSELS.</li><li>➤ JIGS AND TEMPLATE MAKING.</li><li>➤ TEMPLATE FOR MARKING JOINT SECTION.</li><li>➤ ASSEMBLY: PROCEDURE AND TECHNIQUE FOR ASSEMBLY.</li><li>➤ CHIPPING &amp; GRINDING &amp; FINISHING &amp; PAINTING.</li><li>➤ <b>WORKSHOP CALCULATION AND SCIENCE</b></li><li>➤ <b>EMPLOYABILITY SKILLS</b></li></ul>

IN ADDITION TO THE ABOVE, FEW QUESTIONS RELATED TO THE GENERAL KNOWLEDGE, GENERAL ENGLISH, GENERAL MATHS, I.Q., APTITUDE, TEST OF REASONING, NUMERICAL ABILITY, CURRENT AFFAIRS, COMPUTER BASICS ETC.