

Revised Engineering Drawing (ED) syllabus  
of 40 hrs. from 80 hrs. duration for 75 trades in 29  
groups  
under Craftsmen Training Scheme (CTS)  
applicable from 2021-22 session.

Please note that free hand Engineering Drawing will be assessed as part of Formative assessment while, a few MCQ question on ED will be part of Trade Theory Computer Based Test (CBT).

Also note that for Draughtsman groups of trade, ED will be part of trade practical exam. Changes in their syllabus, if any, will be communicated Separately.

<b>Group 19-Engineering Drawing</b>		
<b>CTS Trades Covered: Electrician, Wireman, Electroplater, Lift &amp; Escalator Mechanic, Electrician Power Distribution</b>		
<b>1<sup>st</sup> -Year</b>		
<b>Sl. No.</b>	<b>Topic</b>	<b>Time in hrs.</b>
1.	Introduction to Engineering Drawing and Drawing Instruments – <ul style="list-style-type: none"> <li>• Conventions</li> <li>• Sizes and layout of drawing sheets</li> <li>• Title Block, its position and content</li> <li>• Drawing Instrument</li> </ul>	2
2.	Free hand drawing of – <ul style="list-style-type: none"> <li>• Geometrical figures and blocks with dimension</li> <li>• Transferring measurement from the given object to the free hand sketches.</li> <li>• Free hand drawing of hand tools.</li> </ul>	6
3.	Drawing of Geometrical figures: <ul style="list-style-type: none"> <li>• Angle, Triangle, Circle, Rectangle, Square, Parallelogram.</li> <li>• Lettering &amp; Numbering – Single Stroke</li> </ul>	4
4.	Dimensioning Practice <ul style="list-style-type: none"> <li>• Types of arrowhead</li> </ul>	2
5.	Symbolic representation – <ul style="list-style-type: none"> <li>• Different electrical symbols used in the related trades</li> </ul>	4
6.	Reading of Electrical Circuit Diagram	14
7.	Reading of Electrical Layout drawing	8
<b>Total</b>		<b>40</b>

<b>2<sup>nd</sup> -Year</b>		
<b>Sl. No.</b>	<b>Topic</b>	<b>Time in hrs.</b>
1.	Reading of Electrical Sign and Symbols	4
2.	Sketches of Electrical components	6
3.	Reading of Electrical wiring diagram and Layout diagram Reading of Electrical earthing diagram. Drawing the schematic diagram of plate and pipe earthing.	10
4.	Drawing of Electrical circuit diagram	10
5.	Drawing of Block diagram of Instruments & equipment of trades	10
<b>Total</b>		<b>40</b>