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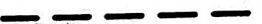




(AN ISO 9001:2015 CERTIFIED TRAINING INSTITUTE)

ESTD: 2015 Siromonipur, Bishnupur, Bankura, 722122 (W.B.)



### Types of Lines and their Applications in Engineering Drawing

S.No.	Line Description and Representation	Application
1.	Continuous narrow lines 	<ol style="list-style-type: none"><li>1. Imaginary lines of intersection</li><li>2. Dimension line</li><li>3. Extension line</li><li>4. Leader line with reference line</li><li>5. Hatching</li><li>6. Outlines of revolved section</li><li>7. Short centre lines</li><li>8. Root of screw threads</li><li>9. Dimension lines termination, arrowheads</li><li>10. Diagonals for indication of flat surfaces</li><li>11. Bending lines on blanks and processing parts</li><li>12. Framing of details</li><li>13. Indication of repetitive details</li></ol>

	<p><b>Continuous narrow freehand line</b></p>  <p><b>Continuous narrow line with zig-zags</b></p> 	<p>14. Interpretation lines of tapered features</p> <p>15. Location of laminations</p> <p>16. Projection lines</p> <p>17. Grid lines</p> <p>18. Preferably manually represented termination of partial or interrupted views, cuts and sections, if the limit is not a line of symmetry or a centre line.</p> <p>19. Preferably mechanically represented lamination of partial or interrupted views, cuts and sections, if the limit is not a line of symmetry or a centre line</p>
2.	<p><b>Continuous wide line</b></p> 	<p>1. Visible edges</p> <p>2. Visible outlines</p> <p>3. Crests of screw threads</p> <p>4. Limit of length of full depth thread</p> <p>5. Main representation in diagram, map, flow charts</p> <p>6. System lines (structural metal engineering)</p> <p>7. Parting lines of moulds in views.</p> <p>8. Lines of cuts and section arrows</p>
3.	<p><b>Dashed narrow line</b></p> 	<p>1. Hidden edges</p> <p>2. Hidden outlines</p>
4.	<p><b>Dashed wide line</b></p> 	<p>Indication of permissible areas of surface treatment</p>
5.	<p><b>Long-dashed dotted narrow line</b></p> 	<p>1. Centre lines</p> <p>2. Line of symmetry</p> <p>3. Pitch circle of holes</p>
6.	<p><b>Long-dashed dotted wide line</b></p> 	<p>1. Indication of (limited) required areas of surface treatment, e.g. heat treatment</p> <p>2. Indication of cutting planes</p>
7.	<p><b>Long-dashed double-dotted narrow line</b></p>  	<p>1. Outlines of adjacent parts</p> <p>2. Extreme positions of movable parts</p> <p>3. Centroidal lines</p> <p>4. Initial outlines prior to forming</p> <p>5. Parts situated in front of a cutting plane</p> <p>6. Outlines of alternative executions</p> <p>7. Outlines of the finished part within blanks</p> <p>8. Framing of particular field/area</p> <p>9. Projected tolerance zone</p>

Application



*Construction Line*



*Dimension Line*



*Center Line*



*Extension or Datum Line*



*Long-break Line*



*Section Lining*



*Hidden or Bend Line*



*Ditto Line to Indicate Repeated Detail*



*Object Line to Outline Parts*



*Short-break Line*



*Cutting-plane Line*