

## DGMS Mine Surveying: Online Class+Test Series Exam 2026

### Faculties:-

- 1) **Shri Bijay Kishore Sir**- Ret Chief Manager (Coal India Ltd)- For Regulations & Circular related to Surveying
- 2) **Shri Shailendra Prajapati**- For L1 to L38

### Class Format:-

- Total No. of Lectures- 40-45
- Three Lectures in a Week.
- Previous Year Question Papers of Various CIL Subsidiaries exam discussion on Sat/Sunday
- Time - Evening
- One Hour Lecture- 45 Min Topic Lecture + 15 Min MCQ discussion

### What is included in course:-

- 1) Online Live Class plus its recorded lectures
- 2) Faculty Lecture Notes
- 3) Online MCQ Test Series
- 4) Whatsapp Support

**MCL MINE SURVEYOR EXAM-2026**  
**Detailed Lecture Plan (35 Lectures)**  
**SURVEYING PART**

<b>Lesson (Lec No.)</b>	<b>Topic</b>	<b>Sub Topic</b>	<b>Date</b>
<b>L1</b>	Intro & Linear Measurement	Surveying principles, Units, Chains, and Tapes.	10-03-2026
<b>L2</b>		Tape corrections (Temperature, Pull, Sag) and Errors.	11-03-2026
<b>L3</b>	Angular Measurement	Compass Surveying, Magnetic and Grid Bearings.	12-03-2026
<b>L4</b>	Area & Volume Calculations	Area by offsets, Trapezoidal, and Simpson's Rule.	17-03-2026
<b>L5</b>		Prismoidal and Average End Area methods for earthwork.	18-03-2026
<b>L6</b>	Theodolite Traversing	Parts of Theodolite and Temporary Adjustments.	19-03-2026
<b>L7</b>		Methods of traversing and Field Book entry.	24-03-2026
<b>L8</b>	Levelling	Fundamentals, Benchmarks, and Types of Levelling.	25-03-2026
<b>L9</b>	Levelling Calculation	Rise & Fall method and Height of Instrument (HI) method.	26-03-2026
<b>L10</b>	Levelling Errors	Curvature and Refraction corrections, Reciprocal Levelling.	31-03-2026
<b>L11</b>	Survey Mathematics	Basic Trigonometry applications in Mine Surveying.	01-04-2026
<b>L12</b>	Co-ordinate Geometry	Rectangular Co-ordinates: Latitude and Departure.	02-04-2026
<b>L13</b>	Co-ordinate Calculation	Closing error calculation and Balancing of Traverse.	07-04-2026
<b>L14</b>	True North	Determination of True North by Astronomical observations.	
			08-04-2025

<b>Lesson (Lec No.)</b>	<b>Topic</b>	<b>Sub Topic</b>	<b>Date</b>
<b>L15</b>		Magnetic declination and its variations.	09-04-2026
<b>L16</b>	Triangulation	Principles, Classification, and Layout of Triangulation.	14-04-2026
<b>L17</b>		Base line measurement and extension of base.	15-04-2026
<b>L18</b>		Satellite stations and Reduction to center.	16-04-2026
<b>L19</b>	Topographic Survey	Plane table methods and Mapping of surface features.	21-04-2026
<b>L20</b>	Tacheometry	Principles of Tacheometry and Stadia systems.	22-04-2026
<b>L21</b>		Tangential method and use of Anallatic lens.	23-04-2026
<b>L22</b>	Theory of Errors	Types of errors (Systematic, Random) and Sources.	28-04-2026
<b>L23</b>	Survey Adjustments	Law of weights and adjustment of survey observations.	29-04-2026
<b>L24</b>	Contouring	Definition, Characteristics, and uses of Contours.	30-04-2026
<b>L25</b>		Methods of Contouring (Direct and Indirect).	05-05-2026
<b>L26</b>	Underground Survey	Booking, Stations, and Illumination in UG Mines.	06-05-2026
<b>L27</b>	Opencast Survey	Face survey, Bench mapping, and Monitoring.	07-05-2026
<b>L28</b>	Correlation Survey	Importance and Direct method (Shaft Plumbing).	12-05-2026
<b>L29</b>		Indirect methods (Weisbach Triangle and Coplaning).	13-05-2026
<b>L30</b>	Subsidence Survey	Ground movement monitoring and Observation stations.	14-05-2026

Lesson (Lec No.)	Topic	Sub Topic	Date
L31	Construction Survey	Setting out Geometrical Elements and Mine Drivage.	19-05-2026
L32	Rail Curves	Elements of Simple Circular Curves.	20-05-2026
L33		Setting out curves (Linear and Angular methods).	21-05-2026
L34	Geologic Problems	Dip, Strike, and Outcrop calculations.	26-05-2026
L35		Fault problems: Displacement, Throw, and Heave.	27-05-2026

### GENERAL ASSESSMENT PART

#### PART -A 20 Questions 20 Marks

#### GENERAL ASSESSMENT

- i. General Knowledge and Current Affairs
- ii. Reasoning & Mathematical Ability
- iii. Awareness about Coal Industries

Subject	Topics	Sub-topics	
Part A: General Assessment	General Knowledge and Current Affairs(11 )	o <b>Indian History</b>	<b>13-03-2025</b>
		o <b>Geography</b>	<b>14-03-2026</b>
		o <b>Polity</b> o <b>Economy</b> o <b>important national and international events</b> o <b>Government schemes</b> o <b>awards &amp; honours</b>	<b>20-03-2026</b>

		<ul style="list-style-type: none"> <li>○ Sports</li> <li>○ important days</li> <li>○ Books &amp; authors</li> <li>○ Recent developments related to mining and energy sectors.</li> </ul>	<p>21-03-2026</p> <p>27-03-2026</p>
	Reasoning & Mathematical Ability (17)	<ul style="list-style-type: none"> <li>○ Analogy</li> <li>○ Coding-decoding</li> <li>○ blood relations</li> <li>○ direction sense</li> <li>○ number series</li> <li>○ Syllogism</li> <li>○ Puzzles</li> <li>○ Seating arrangement</li> <li>○ Simplification</li> <li>○ Percentage</li> <li>○ ratio &amp; proportion</li> <li>○ Average</li> <li>○ profit &amp; loss</li> <li>○ time &amp; work</li> <li>○ time &amp; distance</li> <li>○ Simple &amp; compound interest</li> <li>○ Basic data interpretation</li> </ul>	<p>28-03-2026</p> <p>03-04-2026</p> <p>04-04-2026</p> <p>10-04-2026</p> <p>11-04-2026</p> <p>17-04-2026</p> <p>18-04-2026</p> <p>24-04-2026</p> <p>25-04-2026</p> <p>01-05-2026</p>
	AWARENESS ABOUT COAL INDUSTRIES (CIL-MCL etc)		DATE WILL BE ANNOUNCED IN CLASS