

BSVT - THIRD PARTY ELEVATOR INSPECTION – 240 HOURS

Unit I: Introduction to Inspection & Standards

Sl. No	Topic	Hours
1	Introduction to Third Party Inspection	2
2	Role & Responsibility of Inspector	2
3	Overview of Elevator Standards (IS & EN)	3
4	IS 14665 Part 1 – Safety Requirements	4
5	IS 14665 Part 2 – Accessibility	3
6	IS 13935 – Installation Standards	4
7	EN 81-20 & EN 13015 Overview	4
8	IS vs EN Comparison	2

Assessment – 2 Hours

Total: 26 Hours

Unit II: Elevator Components (Inspection Perspective)

Sl. No	Topic	Hours
9	Lift Car & Structural Inspection	4
10	Suspension System (Ropes/Belts)	5
11	Hoisting Machine & Brake System	5
12	Counterweight System Inspection	3
13	Guide Rails & Alignment	3
14	Door System & Interlocks	5
15	Control Panels (COP/LOP)	3
16	Electrical Basics for Inspection	2

Assessment – 2 Hours

Total: 32 Hours

Unit III: Safety Devices & Systems

Sl. No	Topic	Hours
17	Overspeed Governor	5
18	Safety Gear	5
19	Buffers (Spring & Hydraulic)	3
20	Braking System	5
21	Emergency Alarm & Communication	3
22	Electrical Safety Systems	4
23	Fire Safety & Rescue Systems	3
24	ARD & Backup Systems	4

Assessment – 2 Hours

Total: 34 Hours

Unit IV: Installation Inspection (IS 13935)

Sl. No	Topic	Hours
25	Shaft (Hoistway) Inspection	4
26	Pit Inspection & Safety	4
27	Machine Room Inspection	4
28	Guide Rail Installation Check	4
29	Car & Counterweight Installation	4
30	Electrical Installation Inspection	4
31	Earthing & Protection Systems	3
32	Site Safety Compliance	3

Assessment – 2 Hours

Total: 32 Hours

Unit V: Periodic Inspection Procedures

Sl. No	Topic	Hours
33	Visual Inspection Techniques	4
34	Car & Landing Inspection	4
35	Pit & Machine Room Inspection	4
36	Operational Testing	6
37	Load Testing Procedures	6
38	Door Operation Check	4
39	Leveling Accuracy Check	4
40	Motor & Drive Inspection	4
41	Rope & Cable Inspection	4

Assessment – 2 Hours

Total: 38 Hours

Unit VI: Accessibility (IS 14665 Part 2)

Sl. No	Topic	Hours
42	Accessibility Concepts	2
43	Cabin Size & Door Width	3
44	Control Panel Accessibility	3
45	Braille & Tactile Features	3
46	Audio & Visual Indicators	3
47	Safety Features for Disabled Users	2
48	Wheelchair Accessibility Testing	2

Assessment – 2 Hours

Total: 20 Hours

Unit VII: Documentation & Reporting

Sl. No	Topic	Hours
49	Inspection Checklist Preparation	4
50	Report Writing	6
51	Non-Conformities Identification	4
52	Risk Classification (Minor/Major/Critical)	3
53	Maintenance Log Verification	3
54	Legal & Regulatory Compliance	2

Assessment – 2 Hours

Total: 24 Hours

Unit VIII: Defects & Troubleshooting

Sl. No	Topic	Hours
55	Common Elevator Defects	4
56	Door System Failures	4
57	Leveling & Sensor Issues	4
58	Motor & Electrical Faults	4
59	Noise & Vibration Analysis	3
60	Case Studies	1

Assessment – 2 Hours

Total: 22 Hours

Unit IX: Mock Inspection & Field Training

Sl. No	Topic	Hours
61	Component Identification (Field)	4
62	Safety Device Testing	4
63	Complete Inspection Simulation	6
64	Report Preparation Practice	3
65	Mock Audit & Evaluation	3

Total: 20 Hours

Unit X: Final Assessment

Sl. No	Topic	Hours
66	Theory Examination	3
67	Practical Assessment	3
68	Viva / Interview	2

Total: 8 Hours

COURSE HOUR DISTRIBUTION

- Introduction & Standards = 26 hrs
- Components = 32 hrs
- Safety Systems = 34 hrs
- Installation Inspection = 32 hrs
- Periodic Inspection = 38 hrs
- Accessibility = 20 hrs
- Documentation = 24 hrs
- Troubleshooting = 22 hrs
- Mock Inspection = 20 hrs
- Final Assessment = 8 hrs

TOTAL = 240 HOURS
