

# Structural Steel Erector Intermediate Trade Test Study Material for Written Test

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This study material is a reference for candidate to prepare for attending written test in Intermediate Trade Test:

1. To enhance the stability of lifting object in order to avoid any undue swing or rotation, tag line or control rope should be attached to the lifting object.
2. To shut down the blowpipe, fuel gas valve at the blowpipe should be closed first.
3. The hand signal shown in diagram indicates travel to me.



4. The hand signal shown in diagram indicates a indicating distance to travel.



5. In oxyacetylene welding, the usual colour of oxygen cylinder is black.
6. In oxyacetylene welding, the usual colour of acetylene cylinder is maroon red.
7. According to Works Branch of Development Bureau, Colour Coding System for lifting gear was adopted. All lifting gear should be painted with appropriate colour codes for classification after checking with the updated register. For example, for wire ropes and lifting equipment after checking with updated register during July to September, it should be painted in green colour for identification.

8. During installation of universal column (UC or I-section), one should aware the setting out cross marking.
9. When lifting steel member for installation, the steel members should be equipped with plastic pads to protect the steel from any damages.
10. After temporary installation of steel structure, manual hoist should be used to secure the structure.
11. If lifting gear is painted with white colour after checking, it indicates that the equipment should be kept under quarantine in Main Contractor's central yard.
12. If the lifting gear is painted with red colour, it indicates that it should be removed from site.
13. Tools shown on the photo is flashback arrester.
14. When bolt is tightening by torque wrench, "ticking" sound will generate if applied force reaches the pre-set torque value.
15. Every board or plank forming part of a working platform should be not less than 25mm in thickness.
16. The top guard-rails of working platform should be ranged from 900 to 1150mm in height.
17. In case of any corruption/act of bribery happen in construction industry, it will cause decline in work quality.
18. The benefits of professional ethics and good conducts will improve construction industry and it will bring us mentally and physically well.
19. When there is a problem, such as malfunctions, with an electrical tool, worker should stop using it and report to the person in charge/supervisor to arrange repairing.
20. The major purpose of "Site Safety Talks" is to regularly inculcate safety knowledge into workers.

#### **Precautions**

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