

## SYLLABUS

### **Syllabus under Static and Mobile Pressure Vessels (Unfired) Rules, 2016**

1. Static and Mobile Pressure Vessels (Unfired) Rules, 2016. and subsequent amendments
2. Design and fabrication code for pressure vessels example ASME, SECTION VIII, DIV. 1 & II, IS 2825.
3. Design and fabrication code of cryogenic pressure vessels, EN 13458, EN 13530 and ASME, SECTION VIII, DIV. 1.
4. Design and fabrication code of Safety Relieve Valves (SRV), Excess Flow Valves.
5. Procedure for periodic examination and testing of pressure vessels, SRV and other safety fittings.
6. The procedure for rejection criteria based on anomalies, material of construction and failure criteria.
7. Procedure for degassing of pressure vessels along with code of practice.
8. Procedure for repair and modification of pressure vessels as per rules and code of practice.
9. SOP for commissioning of repaired pressure vessels.
10. IS/IEC: 60079: Part 0,1, 2, 5, 6, 7,11, 14, 15, 18 and 26 - Standards for Ex-electrical equipments in petroleum vapour/gaseous atmosphere.
11. IS 5571 - Guide for selection and installation of electrical equipments for hazardous areas (other than mines).
12. IS 5572 - Classification of hazardous areas (other than mines) having flammable gases and vapours.

### **Syllabus under Petroleum Rules, 2002.**

1. Petroleum Act, 1934.
2. Petroleum Rules, 2002. and subsequent amendments
3. OISD 116, 117 for firefighting facilities at petroleum depots & refineries.
4. OISD 118 for layout for refineries
5. OISD 141 for laying of petroleum pipelines.
6. OISD 156 for firefighting facilities at jetties.
7. OISD 244 for storage & handling of petroleum products at depots and terminals including stand alone crude oil storage facilities.
8. Welded steel tanks for petroleum storage in aboveground tanks - API 650, IS 803.
9. Welded steel tanks for petroleum storage in underground tanks - IS 10987.
10. IS/IEC: 60079: Part 0,1, 2, 5, 6, 7,11, 14, 15, 18 and 26 - Standards for Ex-electrical equipments in petroleum vapour/gaseous atmosphere.
11. IS 5571 - Guide for selection and installation of electrical equipments for hazardous areas (other than mines).
12. IS 5572 - Classification of hazardous areas (other than mines) having flammable gases and vapours.
13. Procedure for periodic examination and hydro testing of underground and aboveground petroleum storage tanks - Relevant design codes and Petroleum Rules.
14. Testing of safety fittings of petroleum tankers- Schedule III of Petroleum Rules, 2002.