

5. Inspection and Maintenance of LPG installations

5.1. General

- 5.1.1.** All LPG installations shall be inspected and maintained quarterly (Once every 3 months) by the Civil Defence approved installation and maintenance companies.
- 5.1.2.** Personnel who perform inspection and maintenance on the LPG systems shall be trained in the hazards of the system and in the maintenance and testing procedures applicable to the installation and shall hold valid Civil Defence license.
- 5.1.3.** Written inspection and maintenance manual shall be handed over to the owner after installation of LPG systems, which shall address the routine inspection, visual inspections and maintenance procedures on corrosion, physical protection, Hoses, Piping integrity, fittings, Tanks and Cylinders.
- 5.1.4.** Such inspection and maintenance manual shall be kept at the facility and shall be available for inspection and maintenance contractor.
- 5.1.5.** Periodic inspection and maintenance reports shall be available for Civil Defence random inspections.
- 5.1.6.** LPG Systems associated Fire Fighting Systems, Fire extinguishers shall be inspected and maintained as per relevant chapters of the UAE Fire and Life Safety Code of Practice.
- 5.1.7.** LPG Systems inspection and maintenance shall be in accordance with checklist as per **Table 11.14.**

Table 11.14: Inspection and Maintenance Checklist

ITEMS	INSPECTION AND MAINTENANCE GUIDELINE
1. TANKS	<ul style="list-style-type: none"> i. LPG storage Tanks shall be of the correct models and constructed exactly in accordance with the construction drawings which have been approved by the consultant and Civil Defence. ii. Make, Model, Capacity, Certification label and data plate shall be as per specifications and visible. iii. No combustibles, vegetation, dry grass and storage shall be accumulated around the Tanks. iv. Visual examination shall ensure that external surfaces and all welds are free from signs of defects such as corrosion, cracking, erosion, deformation etc. v. Inspection and maintenance records shall be followed up. vi. Valve thickness shall be checked using ultrasonic thickness meter every 10 years. vii. Tank supports shall be inspected for corrosion, cracks and damages.
2. PRESSURE RELIEF VALVES	<ul style="list-style-type: none"> i. Pressure relief valves shall be as per design specifications. ii. Shall be replaced every 10 years or if any signs of damage are evident. iii. Pressure relief valve shall be open to atmosphere without obstruction. iv. Pressure relief vent caps shall be in working condition.