

DIN EN 13423:2021-09 (E)

Natural gas vehicles - Requirements for NGV workshops and the management of compressed natural gas (CNG) vehicles

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	General provisions	10
5	NGV workshop activities	11
6	NGV workshop risk management	11
6.1	Procedure	11
6.2	Risk context	11
6.3	Risk assessment	12
6.4	Risk treatment	12
6.5	Risk monitoring and review	12
6.6	Risk documentation	12
7	NGV workshop planning	12
7.1	Tools and equipment	12
7.2	Security measures	13
7.3	Emergency planning	13
8	NGV workshop occupants	13
8.1	General safety	13
8.2	NGV workshop mechanics/technicians	13
8.3	Training	13
8.4	Qualification	14
9	NGV workshop layout	14
9.1	Designated areas	14
9.2	Marking of areas	14
9.3	Hazardous areas	14
9.4	Warning signs and notices	14
9.5	General atmosphere	14
9.6	Increased hazards	15
10	NGV workshop systems	15
10.1	Air compressor system	15
10.2	Fire protection system	15
10.3	Gas detection system	16
10.4	Heat and lighting system	16
10.5	Measurement system	16
10.6	Mechanical ventilation system	16
11	NGV workshop operations	16
11.1	Documentation	16

11.2	Gas leak management	17
	Annex A (normative) Management of NGVs	18
	Annex B (normative) Management of cylinders	22
	Annex C (informative) Natural gas characteristics	26
	Annex D (informative) NGV workshop tools and equipment	28
	Bibliography	30