Fatal and non-fatal accidents in port/seaside construction work in Japan in 1999-2022

port/seaside construction work industry Code No.030111

Type of accidents in port/seaside construction work in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	40	42	45	30	32	33	28	23	19	19	14	20	20	12	31	33	12	19	23	8	16	22	16	10	567
falling to same level	22	18	15	17	14	13	12	8	12	10	5	9	5	3	16	8	7	10	11	8	5	14	10	11	263
crash	9	9	4	8	3	4	7	1	6	3	2	7	1	6	9	6	5	8	3	4	6	2	2	7	122
struck by flying or falling object	29	22	19	21	17	8	18	9	11	14	10	7	8	6	11	8	10	12	8	10	6	9	9	6	288
collapse	8	5	8	6	6	2	5	9	7	3	3	7	1	4	4	5	5	2	1	3	4	8	1	3	110
crashed by	32	30	29	18	16	12	16	14	16	13	3	6	9	6	8	14	8	17	8	2	6	11	13	3	310
caught in/between	39	46	47	44	36	30	28	21	20	12	34	15	11	26	18	23	16	21	21	10	15	20	18	14	585
cut	4	6	7	4	3	4	2		2	2	3		2	3	1	2	3	2	2	4	4	3	2	2	67
injury to the sole of the foot	1						1						1			1									4
drown	1	4	2	1	4	2	2	1		2	1	1	3	5	2		2	1	2	3		1	3	1	44
contact to high/low-	1	1	2	1	1		2	1	2		1	2	1	2	3					2		1	2	1	26

temperature																									
contact to harmful substance	7	2	2		3	2	3	3	3	1	1	3	1	2		5	1	1	1	1	1	1	3	1	48
electric shock		1											1										1		3
explosion								1		2		1			1										5
burst																									
fire							1																		1
traffic accident (public road)	3	6	1	6	3		3		3	1		2	2		3	4	6	3	1	9	3	3	6	2	70
traffic accident (others)				2					1		1	1	1	2									1	1	10
reaction to motion/improper motion	6	5	7	2	5	5	3	6	3	2	2	3	3	2	3	2	1	3	2	4	1	2	2	3	77
others	3	2	1	2	2	1	2		2	1	2		6		1	1			1		1		3		31
unclassifiable						1						1								1	1				4
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Causal agents (large) of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	21	21	17	16	15	9	19	2	16	13	10	8	7	10	11	15	4	14	16	7	9	8	11	7	286

crane, conveying machine	50	42	47	50	43	34	33	21	25	17	22	22	24	19	34	29	34	24	22	17	17	22	26	24	698
other equipment	38	34	36	37	22	17	17	10	14	16	13	13	12	15	13	20	11	21	12	9	8	11	21	14	434
temporary buildings, establishments	41	52	49	32	33	32	31	31	27	19	15	25	10	17	30	26	13	22	22	14	18	28	14	15	616
substance, material	33	31	25	18	19	10	22	19	14	10	10	8	8	6	9	11	4	9	4	7	8	11	6	1	303
load	4	2	6	3	3	2	4		2	3	3	1	3	3	3	2	3	4	3	1	5	5	2	1	68
environment	15	14	7	5	7	10	5	11	7	6	7	6	11	8	8	6	6	3	4	9	2	10	8	2	177
others	3	3	2	1	3	3	2	3	2	1	2	2	1	1	3	3	1	2	1	5	2	2	4	1	53
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Causal agents (middle) of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine		1					2			1					1					1					6
power transmission mechanism			1			2	2					1		1							1				8
woodworking machine	2	3	2		1	2	2								1	1		1		1	1	2	2	1	22

construction machine	15	15	8	11	6	5	12	2	13	9	8	5	5	5	9	9	3	10	12	3	2	3	7	4	181
metal manufacturing machine	2	1	3	3	3				1	1	2		1	3		2	1	1	2	2	1	1		1	31
general machine	2	1	3	2	5		1		2	2		2	1	1		3		2	2		4	2	2	1	38
mobile silviculture machine																									
crane	32	22	34	16	29	15	14	15	15	8	9	10	9	12	19	15	19	11	14	3	5	10	9	12	357
conveying machine	5	8	5	10	5	11	6	3	1	4	3	5	7	2	5	10	5	3	2	3	5	4	4	1	117
vehicle	13	12	8	24	9	8	13	3	9	5	10	7	8	5	10	4	10	10	6	11	7	8	13	11	224
pressure vessel											1				1			1					1	1	5
chemical facilities																									
welding equipment	1						3	1						1							1				7
kiln, caldron																									
electric equipment		1			1													2					1		5
human power machine, tools	6	4	5	2	2	1	3		1	2	2	4	1	2		1		3		1		1	3	1	45
tools	26	25	28	31	17	12	10	9	12	11	9	6	7	10	11	17	10	11	11	7	7	8	15	9	319
other equipments,																									

facilities	5	4	3	4	2	4	1		1	3	1	3	4	2	1	2	1	4	1	1		2	1	3	53
temporary buildings, establishments	41	52	49	32	33	32	31	31	27	19	15	25	10	17	30	26	13	22	22	14	18	28	14	15	616
hazards, harmful substances	1		2				2	1		1		1		1	1	3						1		1	15
materials	32	31	23	18	19	10	20	18	14	9	10	7	8	5	8	8	4	9	4	7	8	10	6		288
load	4	2	6	3	3	2	4		2	3	3	1	3	3	3	2	3	4	3	1	5	5	2	1	68
natural environment	15	14	7	5	7	10	5	11	7	6	7	6	11	8	8	6	6	3	4	9	2	10	8	2	177
other causal agent	1	1			3	1		1		1	1						1				1		3		14
no causal agent	2	2	2	1		1	2	2	2		1	1	1	1	3	3		2	1	5	1	2	1	1	37
unclassifiable						1						1													2
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Causal agents (small) of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine							2			1					1					1					5
power transmission mechanism			1				2					1		1							1				6

circular sawing machine			1		1		1								1	1				1	1	2	1	1	11
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																		1					1		2
other woodworking machines			1				1																		2
leveling, transporting or loading machine			1				2		2	2		1			2	1		2	2			1	1	2	19
excavating machine			6		6		6	1	5	5	2	2	2	3	7	2	1	4	6	3	2		3	1	67
foundation work machine			1				1	1	2	1	1	1					1	1	2				2	1	15
hardening machine											1		1			1						1			4

demolition machine									1		1		1	1				3							7
vehicle for high lift work																									
other construction machines							3		3	1	3	1	1	1		5	1		2			1	1		23
lathe																					1	1			2
drill press, milling machine														1											1
grinding machine, buffing machine			1		1				1	1	1			1		1		1	1	1					10
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines			2		2						1		1	1		1	1		1	1				1	12
centrifugal machine																									
mixer, grinder										1												1	1		3
roll machine (except printingroll machine)																									

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			3		5		1		2	1		2	1	1		3		2	2		4	1	1	1	30
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			3		4		1		2		1		1		1	1			2		1	3			20
mobile crane			23		20		11	13	11	7	8	8	7	10	16	13	16	10	9	3	4	7	5	11	212
derrick crane																									
elevator, lift																									
cargo lifting appliance			1		1		1		1							1			3					1	9
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			7		4		1	2	1	1		2	1	2	2		3	1					4		31
truck			4		4		4	2	1	3	2	5	6	2	4	8	5	3	2	1	5	3	4	1	69
forklift					1		1			1	1				1	1									6
railway equipment																									
conveyor			1					1												1					3
loader							1						1									1			3
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																1				1					2
cars, bus, motorcycle			1		2		2		2	1		2	2		3	2	6	1	1	8	1	2	6	1	43
railway vehicle																									
other vehicles			7		7		11	3	7	4	10	5	6	5	7	2	4	9	5	3	6	6	7	10	124
boiler																									

pressure vessel																		1							1
other pressure vessels											1				1								1	1	4
chemical facilities																									
gas welding equipment							2							1							1				4
arc welding equipment							1	1																	2
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																		2					1		3
other electrical equipment					1																				1
human power cranes																									
human power hauling equipment					1								1												2

human power machine							1																		1
hand tool			5		1		2		1	2	2	4		2		1		3		1		1	3	1	29
ladder			5		3		2	4	3	4	3	2	3	4	4	6	3	5	4		2	2	5	2	66
slinging tool			6		4		5	1	2	2	2	2	2	4	4	3	2	3	4	4	3		6	2	61
other tools			17		10		3	4	7	5	4	2	2	2	3	8	5	3	3	3	2	6	4	5	98
other equipment, facilities			3		2		1		1	3	1	3	4	2	1	2	1	4	1	1		2	1	3	36
scaffolding			8		4		6	2	4	3	2	4	2	1	5	6	4	3	6	1	5	3	1	1	71
timbering			3		2			2	1	4		6	1			2	1		2		2	1	1	1	29
stairs, landing stage			1		3		4	2	2	2	1	1	1	1	2	1		1	1		2	4	2	4	35
opening			3																						3
roof, beam, haze, crossbeam, principal rafter							1		1	1	1			1				1				3			9
working platform, boot board			5		4		1	3	1	3	1	3		3	3	1	2	1	4	1	1	1	3	3	44
passage			6		3		2	1	3	1	1	4	2	1	7	2	2	5	2	4	2	5	1	2	56
building, establishment			13		12		11	11	9	1	6	4	2	6	12	6	1	7	4	7	4	6	5	2	129
other temporary buildings,			10		5		6	10	6	4	3	3	2	4	1	8	3	4	3	1	2	5	1	2	83

establishments																									
explosive substance																									
inflammable substance														1											1
inflammable gas										1		1			1										3
harmful substance							2									2									4
radiation																									
other hazards, harmful substances			2					1								1						1		1	6
metal material			16		14		7	7	8	6	5	5	4	3	4	7	4	4	4	6	5	6	4		119
lumber, bamboo			1		1		2	4	2		3		1		1	1		1		1		1			19
stone, sand, substance			5		2		7	3	2	3	1	2	2	1	1			3			2	1	2		37
other materials			1		2		4	4	2		1		1	1	2			1			1	2			22
load			6		1		4		2	2	3	1	3	2	3	2	3	3	3		4	4	2	1	49
machine/equipment as load					2					1				1				1		1	1	1			8
natural ground, rock			1				2	2	1	2	1	2	1	2	1		1	1		1		4	1	1	24
standing tree											1												1		2
water			1		4			3		2	2		7	4	2	1	3	1	2	3		3	3		41
abnormal																									

environment			2		2			3	3	1		3	1	2		2	1		1		1	1	2	1	26
high/cold temperature environment			1				1		2				1		3					2		1	1		12
other environments			2		1		2	3	1	1	3	1	1		2	3	1	1	1	3	1	1			28
other causal agent					3			1		1	1						1				1		3		11
no causal agent			2				2	2	2		1	1	1	1	3	3		2	1	5	1	2	1	1	31
unclassifiable												1													1
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Workers age of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	3	5	4	2	4		1		1	1	1		1	1	2	3		4	3	1		1	1		39
20-29	15	26	22	22	20	14	17	7	5	10	6	3	9	9	7	10	6	11	8	3	4	10	13	5	262
30-39	37	24	27	23	22	16	19	21	15	18	12	15	10	13	19	10	9	8	10	8	9	11	14	9	379
40-49	45	39	36	45	32	27	30	22	24	10	16	12	9	14	23	29	21	21	17	14	9	20	16	9	540
50-59	69	55	66	42	49	43	45	34	40	29	27	29	26	26	35	30	20	26	17	20	20	19	22	14	803
60 years old or more	36	50	34	28	18	17	21	13	22	17	20	26	21	16	25	30	20	29	29	23	27	36	26	28	612
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Workers' number of workplace of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	69	61	68	51	51	42	51	30	38	34	29	27	19	26	32	37	19	20	27	19	24	28	27	20	849
10-29	84	78	77	60	53	47	50	49	42	30	33	31	24	25	41	42	39	39	39	28	28	46	30	24	1,039
30-49	22	27	20	23	14	15	17	6	16	11	10	14	19	19	19	17	10	20	11	13	8	13	20	13	377
50-99	20	18	12	18	10	6	10	5	2	5	7	11	10	4	17	14	6	13	5	6	5	8	10	5	227
100-299	8	13	10	7	14	6	5	5	7	3	1	1	4	5	2	2	2	7	2	3	4	2	5	3	121
300 workers or more	2	2	2	3	3	1		2	2	2	2	1													22
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Month of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	16	16	21	22	15	11	5	8	7	8	10	10	7	2	6	7	9	9	9	4	8	11	8	6	235
February	21	14	16	9	15	12	13	16	10	8	12	6	4	9	11	10	5	6	8	4	6	9	12	6	242
March	24	17	16	10	11	8	8	10	9	9	7	8	11	9	4	10	4	10	12	7	8	9	6	9	236
April	16	14	9	9	8	5	9	1	3	8	2	4	4	8	5	12	8	8	7	5	6	3	6	3	163
May	11	12	14	9	10	7	8	3	12	6	1	5	7	6	8	8	8	11	9	7	5	3	5	3	178
June	18	21	10	18	12	13	10	3	7	3	3	8	7	9	7	6	4	4	4	7	1	4	11	8	198

July	10	13	14	9	20	10	11	12	12	7	5	6	6	6	5	12	1	3	7	3	8	9	10	2	201
August	15	17	12	27	14	6	24	9	7	6	9	6	5	6	19	9	5	9	7	14	3	9	4	6	248
September	12	13	18	11	15	11	16	10	8	9	10	11	7	6	9	9	8	10	6		8	8	11	7	233
October	29	21	16	18	7	15	10	6	9	10	9	8	1	7	11	12	8	7	4	3	4	15	8	6	244
November	20	17	20	8	13	13	15	6	13	6	10	9	8	5	11	9	9	13	5	8	5	10	4	4	241
December	13	24	23	12	5	6	4	13	10	5	4	4	9	6	15	8	7	9	6	7	7	7	7	5	216
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Prefecture of fatal and non-fatal accidents in port/seaside construction work in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	17	23	18		15		22	15	15	5	10	12	7	5	8	9	5	3	4	12	9	12	18	4	248
Aomori	8	12	5		8		6	4	6	2	6	3	6	5	6	5	1	9	2	3	3	8	8	2	118
Iwate	4	7	3		3		2		3		2	1	4	3	17	10	11	6	9	4	2	2	1	2	96
Miyagi		4						1	2	1	1	1	7	6	5	10	10	14	13	11	7	7	7	1	108
Akita	2	1			1			3	2	2	1	2		1	2	2		2	2		2			1	26
Yamagata	2	2	1		1		1				1	1		1	2	2			3	1			1		19
Fukushima	4		1		3		2		1	2	1	2	3	3	8	9	7	5	5	1	2	7		5	71
Ibaraki	3	1			2			2	1	2	2	1	2	3	1	4	1	3	5	1	3	3	2		42
Tochigi														1											1
Gunma	1																								1

Saitama														1											1
Chiba	2	1	5		2		6	5	2	1	2	1	2	1			1	3		1	1	2	1		39
Tokyo	11	11	11		9		6	3	6	4	7	3	6	3	5	10	4	4	3	2	7	8	3	3	129
Kanagawa	5	7	6		10			4	4	5	4	1	3	1	3		2	2	3	1	1	3	7	3	75
Niigata	5	4	9		9		8	1	4	1	1	3	1	2	3	1		2	1	2		2	5	1	65
Toyama	5	4	1		3					1	2		2					1		2	1		3		25
Ishikawa	2	2	3		1		1	1	4	3	1	2	1	2	1	1	2	1				1			29
Fukui	1	1	2		5		1	3				1	1	1	2	1	1				1	1			22
Yamanashi																									
Nagano																									
Gifu					1													1							2
Shizuoka	4	6	5		4			2	1	1	2	3	1	1	2	4	1	1	2	1	4	2	1	1	49
Aichi	3	3	6		1		3		6	1		5	1	1	3	1		1			1	2		1	39
Mie	6	8	7		4			1	2	4	2	2	3		1	1	3	6	2	3	3		1	3	62
Shiga										1															1
Kyoto	2		3						1	1						1		1				1		2	12
Osaka	2		1		1		1			2	2		1				3		1		1	1	1		17
Hyogo	6	4	8		5		4	5	2	5	3	4	2	4	1	4	1	3	2		2	5	4	5	79
Nara																									
Wakayama	11	7	7		1		4	3		1	2	1		3	3			1	2			2	1	1	50
Tottori	1		1		1		2		1	4	1	1	2			3	2	1		1					21

Shimane	1	1	5		4		1	1	3			1		2	1	1					2		2	2	27
Okayama	2		1		2		1		1	1	1	1		2	1	1			1					1	16
Hiroshima	10	8	3		3		2		1	1	3	1	1	1	3	3	1	1	1	2		2	1	1	49
Yamaguchi	6	12	6		4		8	2	4	5	1	2	1	3	1	3	1	2	4	2	1	1	1	1	71
Tokushima	2	2	2		2		2	1	1	1		1		1	1	1	1	1			1	2			22
Kagawa	2		2				2		3		2		1	1		1			1	2		1			18
Ehime	8	6	9		1		5	3	3	4	2	3	2	1	2	2	2	1		5	2		3	2	66
Kochi	9	5	8		7		6	4	6	2	2		2	1	2	2		1	1	1		4	2	4	69
Fukuoka	2	8	3		11		6	4	2	1	2	2	2	4	2	1	1	1	3	4	1	1	1	3	65
Saga	1				1		1		1	2	1	1	1						2					1	12
Nagasaki	20	21	18		9		4	7	6	5	4	5	3	2	5	4	3	3	1		4	4	4	3	135
Kumamoto	8	3	8		2		3	5		2	2	3	1	1	3	3	2	2	1	1		1		1	52
Oita	4	4	3				4	4	2	3	2	3	1	3	3	2	1	1	2		2		3	1	48
Miyazaki	2	2	2				1	1	2				2	2	2			3				3	2		24
Kagoshima	16	17	11		9		17	9	9	6	4	10	3	6	10	8	3	9	5	5	4	5	7	5	178
Okinawa	5	2	5				1	3		3	3	2	1	1	2	2	6	4	3	1	2	4	2	5	57
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	65	2,635

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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Fatal accidents in port/seaside construction work in Japan in 1999-2022

port/seaside construction work industry Code No.030111

Type of fatal accidents in port/seaside construction work in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height		2	1		1		1	1		2						1	1				1	1			12
falling to same level																							1		1
crash																									
struck by flying or falling object	1	2		1	1				1	1			1				1								9
collapse	1	1	2				1		1			1		2		1						1		1	12
crashed by		1	4		3	2	1			1						1		2	1		1				17
caught in/between		4	1	1		1			1		2			1	1	2	1		1				1	1	18
cut																1									1
injury to the sole of the foot																									

drown	1	3	1	1	2	3	1	1		1	1	1	3	5	2		1	1	1	2		1	2		34
contact to high/low-temperature				1			1								1										3
contact to harmful substance		2	1			1				1		1					1						1		8
electric shock																									
explosion															1										1
burst																									
fire																									
traffic accident (public road)	1	1			1				1	1		1			1	2								1	10
traffic accident (others)				1					1				1	1									1	1	6
reaction to motion/improper motion																									
others	1												4		1	1		1							8
unclassifiable																				1					1
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Causal agents (large) of fatal accidents in port/seaside construction work in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine		3	1	1	1					1	1		1		1	2			1	1	1		1	1	17
crane, conveying machine	1	4	2	3	5	2	1		2	1	1	2	2	1	1	2	3	3	1				3	3	43
other equipment		1	2				1	1	1	1				1		2									10
temporary buildings, establishments	1	1	3		1		2		1	1		1		3			1				1	1			17
substance, material	1	1							1						1										4
load		1								1						1						1			4
environment	2	5	2	1	1	5	1	1		2	1	1	5	4	3	1	1		1	2		1	2		42
others													1		1	1		1							4
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Causal agents (middle) of fatal accidents in port/seaside construction work in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

woodworking machine																1									1
construction machine		3	1	1	1					1	1		1		1	1			1	1	1		1	1	16
metal manufacturing machine																									
general machine																									
mobile silviculture machine																									
crane		4	2		3	1					1	1				1	1	2	1					2	19
conveying machine	1				1	1			1			1				1	1								7
vehicle				3	1		1		1	1			2	1	1		1	1					3	1	17
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools		1	2				1	1	1	1						2									9
other equipments,																									

facilities														1											1
temporary buildings, establishments	1	1	3		1		2		1	1		1		3			1				1	1			17
hazards, harmful substances															1										1
materials	1	1							1																3
load		1								1						1						1			4
natural environment	2	5	2	1	1	5	1	1		2	1	1	5	4	3	1	1		1	2		1	2		42
other causal agent																									
no causal agent													1		1	1		1							4
unclassifiable																									
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Causal agents (small) of fatal accidents in port/seaside construction work in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

circular sawing machine																1									1
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine		1																	1						2
excavating machine		1			1										1				1		1				5
foundation work machine			1	1						1													1	1	5
hardening machine																									

demolition machine		1																						1
vehicle for high lift work																								
other construction machines											1		1			1								3
lathe																								
drill press, milling machine																								
grinding machine, buffing machine																								
power press																								
forging pressure hammer																								
shearing machine																								
other metal manufacturing machines																								
centrifugal machine																								
mixer, grinder																								
roll machine (except printingroll machine)																								

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines																									
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane		3	2		3	1					1	1				1	1	2	1					2	18
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane		1																							1
truck	1				1	1			1			1				1	1								7
forklift																									
railway equipment																									
conveyor																									
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle					1					1					1										3
railway vehicle																									
other vehicles				3			1		1				2	1			1	1					3	1	14
boiler																									

pressure vessel																								
other pressure vessels																								
chemical facilities																								
gas welding equipment																								
arc welding equipment																								
other welding equipment																								
kiln, caldron																								
industrial dryer																								
other kiln, caldron																								
transmission																								
electric power facilities																								
other electrical equipment																								
human power cranes																								
human power hauling equipment																								

human power machine																									
hand tool																									
ladder																1									1
slinging tool		1	1						1	1															4
other tools			1				1	1								1									4
other equipment, facilities														1											1
scaffolding		1																			1				2
timbering												1					1								2
stairs, landing stage																						1			1
opening																									
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																									
building, establishment	1		2		1		1			1				2											8
other temporary buildings,			1				1		1					1											4

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas															1										1
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material									1																1
lumber, bamboo																									
stone, sand, substance																									
other materials	1	1																							2
load		1								1						1									3
machine/equipment as load																							1		1
natural ground, rock																									
standing tree																									
water	1	3	1		1	3		1		1	1		5	4	2				1	2		1	1		28
abnormal																									

environment	1	2	1			1				1		1					1							1		9
high/cold temperature environment				1			1								1											3
other environments						1										1										2
other causal agent																										
no causal agent													1		1	1		1								4
unclassifiable																										
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Workers age of fatal accidents in port/seaside construction work in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									
20-29		1		2	1	1								1		2									8
30-39	1	2	4	1	1	1		1	2	3		1	1	2	1	1	1	1	1		1	1		1	28
40-49	2	4	1	1	1	4	2				1			2	2	2	2			1				2	27
50-59	1	3	3	1	4		2	1	2	3	1	2	6	1	3	2	2			2			2		41
60 years old or more	1	6	2		1	1	1		1	1	1	1	2	3	1	2		3	2		1	2	4	1	37
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Workers' number of workplace of fatal accidents in port/seaside construction work in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	1	4	4	2		3	1		2	2	3	1	1	5	3	1	3			1	2	1	2		42
10-29	2	5	2	2	4	2	2	1	1	5		2	2	1		6	2	1	1			1	1	1	44
30-49	2	2	1		3	1	2						6	3	4			1	2			1	3	2	33
50-99		2	1	1	1			1	1			1				1		1		2				1	13
100-299		3	2			1			1									1							8
300 workers or more																1									1
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Month of fatal accidents in port/seaside construction work in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January				1						1					1		1		1			1			6
February			3		2			1			2					1	1		1		1				12
March	2	1	1	1	1							1	4	3		1		1		1			2		19
April		1			1									1	1			1							5
May		1					1		1							1	1					1			6
June		6						1						4		1				1					13

July		1	1	1	1					2						2			1		1				10
August		1	1	1	1		1			1		2			3	1	1			1			1	1	16
September	2	1	1		1	2			2	1		1	2					2						1	16
October	1	1				4	1		1						1	1	1						3	1	15
November		2			1	1	2		1	2			1												10
December		1	3	1							1		2	1	1	1						1		1	13
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Prefecture of fatal accidents in port/seaside construction work in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	1	3	1	1	1	2		1	1									1					1		13
Aomori									1																1
Iwate		1			1								3			1	1		1	1		1	1		11
Miyagi		2													1	2	1				2		1		9
Akita		1																						1	2
Yamagata																1									1
Fukushima						1	1						1		1	1			2						7
Ibaraki										1	1		1	2			1								6
Tochigi																									
Gunma																									

Saitama																									
Chiba					1	2								1								1			5
Tokyo										1						1							1		3
Kanagawa			2		1	1				1	1		2										1		9
Niigata			1		1										2										4
Toyama																							1		1
Ishikawa		1							1	1															3
Fukui								1																	1
Yamanashi																									
Nagano																									
Gifu																									
Shizuoka					2							1				1	1								5
Aichi			1							1					1										3
Mie																									
Shiga																									
Kyoto	1																								1
Osaka																									
Hyogo				1												1	1							1	4
Nara																									
Wakayama		1																							1
Tottori									1																1

Shimane	1																						1	2
Okayama																								
Hiroshima	1	3	1			1								1	1									8
Yamaguchi			1																					1
Tokushima																								
Kagawa			1	1					1					1										4
Ehime				1																				1
Kochi			1											1				2						4
Fukuoka											1		1							1				3
Saga							1																1	2
Nagasaki	1	1			1							1	1		1			1				1			8
Kumamoto			1									1												2
Oita		1					1							3										5
Miyazaki																								
Kagoshima		2		1			1			1		1												6
Okinawa							1			1						1				1				4
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	4	141

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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