Fatal and non-fatal accidents in port/seaside construction work in Japan in 1999-2021

port/seaside construction work industry Code No.030111

Type of accidents in port/seaside construction work in 1999-2021

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	total	Type of accidents
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	557	fall from height
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	252	falling to same level
crash	9	9	4	8	3	4	7	1	6	3	2	7	1	6	9	6	5	8	3	4	6	2	2	115	crash
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	282	struck by flying or falling object
collapse	8	5	8	6	6	2	5	9	7	3	3	7	1	4	4	5	5	2	1	3	4	8	1	107	collapse
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	307	crashed by
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	571	caught in/between
cut	4	6	7	4	3	4	2		2	2	3		2	3	1	2	3	2	2	4	4	3	2	65	cut
injury to the sole of the foot	1						1						1			1								4	injury to the sole of the foot
drown	1	4	2	1	4	2	2	1		2	1	1	3	5	2		2	1	2	3		1	3	43	drown
contact to high/low-temperature	1	1	2	1	1		2	1	2		1	2	1	2	3					2		1	2	25	contact to high/low-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	47	contact to harmful substance
electric shock		1											1										1	3	electric shock
explosion								1		2		1			1									5	explosion
burst																									burst
fire							1																	1	fire
traffic accident (public road)	3	6	1	6	3		3		3	1		2	2		3	4	6	3	1	9	3	3	6	68	traffic accident (public road)
traffic accident (others)				2					1		1	1	1	2									1	9	traffic accident (others)
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	74	reaction to motion/improper motion
others	3	2	1	2	2	1	2		2	1	2		6		1	1			1		1		3	31	others
unclassifiable						1						1								1	1			4	unclassifiable
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,570	total

Causal agents (large) of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

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	total	Causal (L) agents
machine	21	21	17	16	15	9	19	2	16	13	10	8	7	10	11	15	4	14	16	7	9	8	11	279	machine
crane, conveying																									crane,

machine	50	42	47	50	43	34	33	21	25	17	22	22	24	19	34	29	34	24	22	17	17	22	26	674	conveying machine
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	420	other equipment
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	601	temporary buildings, establishments
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	302	substance, material
load	4	2	6	3	3	2	4		2	3	3	1	3	3	3	2	3	4	3	1	5	5	2	67	load
environment	15	14	7	5	7	10	5	11	7	6	7	6	11	8	8	6	6	3	4	9	2	10	8	175	environment
others	3	3	2	1	3	3	2	3	2	1	2	2	1	1	3	3	1	2	1	5	2	2	4	52	others
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,570	total

Causal agents (middle) of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

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	total	Causal (M) agents
engine		1					2			1					1					1				6	engine
power transmission mechanism			1			2	2					1		1							1			8	power transmission mechanism
woodworking machine	2	3	2		1	2	2								1	1		1		1	1	2	2	21	woodworking machine

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	177	construction machine
metal manufacturing machine	2	1	3	3	3				1	1	2		1	3		2	1	1	2	2	1	1		30	metal manufacturing machine
general machine	2	1	3	2	5		1		2	2		2	1	1		3		2	2		4	2	2	37	general machine
mobile silviculture machine																									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	345	crane
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	116	conveying machine
vehicle	13	12	8	24	9	8	13	3	9	5	10	7	8	5	10	4	10	10	6	11	7	8	13	213	vehicle
pressure vessel											1				1			1					1	4	pressure vessel
chemical facilities																									chemical facilities
welding equipment	1						3	1						1							1			7	welding equipment
kiln, caldron																									kiln, caldron
electric equipment		1			1													2					1	5	electric equipment
human power machine, tools	6	4	5	2	2	1	3		1	2	2	4	1	2		1		3		1		1	3	44	human power machine, tools

tools	26	25	28	31	17	12	10	9	12	11	9	6	7	10	11	17	10	11	11	7	7	8	15	310	tools
other equipments, facilities	5	4	3	4	2	4	1		1	3	1	3	4	2	1	2	1	4	1	1		2	1	50	other equipments, facilities
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	601	temporary buildings, establishments
hazards, harmful substances	1		2				2	1		1		1		1	1	3						1		14	hazards, harmful substances
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	materials
load	4	2	6	3	3	2	4		2	3	3	1	3	3	3	2	3	4	3	1	5	5	2	67	load
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	175	natural environment
other causal agent	1	1			3	1		1		1	1						1				1		3	14	other causal agent
no causal agent	2	2	2	1		1	2	2	2		1	1	1	1	3	3		2	1	5	1	2	1	36	no causal agent
unclassifiable						1						1												2	unclassifiable
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,570	total

Causal agents (small) of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

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	total	Causal (S) agents

engine							2			1					1					1					5	engine
power transmission mechanism			1				2					1		1							1			6	power transmission mechanism
circular sawing machine			1		1		1								1	1				1	1	2	1	10	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																		1					1	2	chain saw
other woodworking machines			1				1																	2	other woodworking machines
leveling, transporting or loading machine			1				2		2	2		1			2	1		2	2			1	1	17	leveling, transporting or loading machine
excavating machine			6		6		6	1	5	5	2	2	2	3	7	2	1	4	6	3	2		3	66	excavating machine
foundation work machine			1				1	1	2	1	1	1					1	1	2				2	14	foundation work machine

hardening machine											1		1			1						1		4	hardening machine
demolition machine									1		1		1	1				3						7	demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines							3		3	1	3	1	1	1		5	1		2			1	1	23	other construction machines
lathe																					1	1		2	lathe
drill press, milling machine														1										1	drill press, milling machine
grinding machine, buffing machine			1		1				1	1	1			1		1		1	1	1				10	grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines			2		2						1		1	1		1	1		1	1				11	other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder										1												1	1	3	mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)
injection molding																									injection molding

machine																									machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines			3		5		1		2	1		2	1	1		3		2	2		4	1	1	29	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			3		4		1		2		1		1		1	1			2		1	3		20	crane
mobile crane			23		20		11	13	11	7	8	8	7	10	16	13	16	10	9	3	4	7	5	201	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance			1		1		1		1							1			3					8	cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			7		4		1	2	1	1		2	1	2	2		3	1					4	31	other powered crane
truck			4		4		4	2	1	3	2	5	6	2	4	8	5	3	2	1	5	3	4	68	truck
forklift					1		1			1	1				1	1								6	forklift
railway equipment																									railway equipment
conveyor			1					1												1				3	conveyor
loader							1						1									1		3	loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines																1				1				2	other powered conveying machines
cars, bus, motorcycle			1		2		2		2	1		2	2		3	2	6	1	1	8	1	2	6	42	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles			7		7		11	3	7	4	10	5	6	5	7	2	4	9	5	3	6	6	7	114	other vehicles
boiler																									boiler
pressure vessel																		1						1	pressure vessel
other pressure vessels											1				1								1	3	other pressure vessels
chemical facilities																									chemical facilities
gas welding							2							1							1			4	gas welding

equipment																									equipment
arc welding equipment							1	1																2	arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission																									transmission
electric power facilities																		2					1	3	electric power facilities
other electrical equipment					1																			1	other electrical equipment
human power cranes																									human power cranes
human power hauling equipment					1								1											2	human power hauling equipment
human power machine							1																	1	human power machine
hand tool			5		1		2		1	2	2	4		2		1		3		1		1	3	28	hand tool
ladder			5		3		2	4	3	4	3	2	3	4	4	6	3	5	4		2	2	5	64	ladder
slinging tool			6		4		5	1	2	2	2	2	2	4	4	3	2	3	4	4	3		6	59	slinging tool
other tools			17		10		3	4	7	5	4	2	2	2	3	8	5	3	3	3	2	6	4	93	other tools
other equipment,																									other equipment,

facilities			3		2		1		1	3	1	3	4	2	1	2	1	4	1	1		2	1	33	facilities
scaffolding			8		4		6	2	4	3	2	4	2	1	5	6	4	3	6	1	5	3	1	70	scaffolding
timbering			3		2			2	1	4		6	1			2	1		2		2	1	1	28	timbering
stairs, landing stage			1		3		4	2	2	2	1	1	1	1	2	1		1	1		2	4	2	31	stairs, landing stage
opening			3																					3	opening
roof, beam, haze, crossbeam, principal rafter							1		1	1	1			1				1				3		9	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			5		4		1	3	1	3	1	3		3	3	1	2	1	4	1	1	1	3	41	working platform, boot board
passage			6		3		2	1	3	1	1	4	2	1	7	2	2	5	2	4	2	5	1	54	passage
building, establishment			13		12		11	11	9	1	6	4	2	6	12	6	1	7	4	7	4	6	5	127	building, establishment
other temporary buildings, establishments			10		5		6	10	6	4	3	3	2	4	1	8	3	4	3	1	2	5	1	81	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance														1										1	inflammable substance
inflammable gas										1		1			1									3	inflammable gas
harmful substance							2									2								4	harmful substance
radiation																									radiation
other hazards, harmful substances			2					1								1						1		5	other hazards, harmful substances

metal material			16		14		7	7	8	6	5	5	4	3	4	7	4	4	4	6	5	6	4	119	metal material
lumber, bamboo			1		1		2	4	2		3		1		1	1		1		1		1		19	lumber, bamboo
stone, sand, substance			5		2		7	3	2	3	1	2	2	1	1			3			2	1	2	37	stone, sand, substance
other materials			1		2		4	4	2		1		1	1	2			1			1	2		22	other materials
load			6		1		4		2	2	3	1	3	2	3	2	3	3	3		4	4	2	48	load
machine/equipment as load					2					1				1				1		1	1	1		8	machine/equipment as load
natural ground, rock			1				2	2	1	2	1	2	1	2	1		1	1		1		4	1	23	natural ground, rock
standing tree											1												1	2	standing tree
water			1		4			3		2	2		7	4	2	1	3	1	2	3		3	3	41	water
abnormal environment			2		2			3	3	1		3	1	2		2	1		1		1	1	2	25	abnormal environment
high/cold temperature environment			1				1		2				1		3					2		1	1	12	high/cold temperature environment
other environments			2		1		2	3	1	1	3	1	1		2	3	1	1	1	3	1	1		28	other environments
other causal agent					3			1		1	1						1				1		3	11	other causal agent
no causal agent			2				2	2	2		1	1	1	1	3	3		2	1	5	1	2	1	30	no causal agent
unclassifiable												1												1	unclassifiable
total			189		145		133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	1,887	total

Workers age of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	3	5	4	2	4		1		1	1	1		1	1	2	3		4	3	1		1	1	39	19 years old or less
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	257	20-29
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	370	30-39
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	531	40-49
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	789	50-59
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	584	60 years old or more
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,570	total

Workers' number of workplace of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

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	total	Workers scale
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	829	9 workers or less
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	1,015	10-29
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	364	30-49
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	222	50-99
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	118	100-299
300 workers or more	2	2	2	3	3	1		2	2	2	2	1												22	300 workers or more
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,570	total

Month of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	16	16	21	22	15	11	5	8	7	8	10	10	7	2	6	7	9	9	9	4	8	11	8	229	January
February	21	14	16	9	15	12	13	16	10	8	12	6	4	9	11	10	5	6	8	4	6	9	12	236	February
March	24	17	16	10	11	8	8	10	9	9	7	8	11	9	4	10	4	10	12	7	8	9	6	227	March
April	16	14	9	9	8	5	9	1	3	8	2	4	4	8	5	12	8	8	7	5	6	3	6	160	April
May	11	12	14	9	10	7	8	3	12	6	1	5	7	6	8	8	8	11	9	7	5	3	5	175	May
June	18	21	10	18	12	13	10	3	7	3	3	8	7	9	7	6	4	4	4	7	1	4	11	190	June
July	10	13	14	9	20	10	11	12	12	7	5	6	6	6	5	12	1	3	7	3	8	9	10	199	July
August	15	17	12	27	14	6	24	9	7	6	9	6	5	6	19	9	5	9	7	14	3	9	4	242	August
September	12	13	18	11	15	11	16	10	8	9	10	11	7	6	9	9	8	10	6		8	8	11	226	September
October	29	21	16	18	7	15	10	6	9	10	9	8	1	7	11	12	8	7	4	3	4	15	8	238	October
November	20	17	20	8	13	13	15	6	13	6	10	9	8	5	11	9	9	13	5	8	5	10	4	237	November
December	13	24	23	12	5	6	4	13	10	5	4	4	9	6	15	8	7	9	6	7	7	7	7	211	December
total	205	199	189	162	145	117	133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,570	total

Prefecture of fatal and non-fatal accidents in port/seaside construction work in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	17	23	18		15		22	15	15	5	10	12	7	5	8	9	5	3	4	12	9	12	18	244	Hokkaido
Aomori	8	12	5		8		6	4	6	2	6	3	6	5	6	5	1	9	2	3	3	8	8	116	Aomori
Iwate	4	7	3		3		2		3		2	1	4	3	17	10	11	6	9	4	2	2	1	94	Iwate

Miyagi		4						1	2	1	1	1	7	6	5	10	10	14	13	11	7	7	7	107	Miyagi
Akita	2	1			1			3	2	2	1	2		1	2	2		2	2		2			25	Akita
Yamagata	2	2	1		1		1				1	1		1	2	2			3	1			1	19	Yamagata
Fukushima	4		1		3		2		1	2	1	2	3	3	8	9	7	5	5	1	2	7		66	Fukushima
Ibaraki	3	1			2			2	1	2	2	1	2	3	1	4	1	3	5	1	3	3	2	42	Ibaraki
Tochigi														1										1	Tochigi
Gunma	1																							1	Gunma
Saitama														1										1	Saitama
Chiba	2	1	5		2		6	5	2	1	2	1	2	1			1	3		1	1	2	1	39	Chiba
Tokyo	11	11	11		9		6	3	6	4	7	3	6	3	5	10	4	4	3	2	7	8	3	126	Tokyo
Kanagawa	5	7	6		10			4	4	5	4	1	3	1	3		2	2	3	1	1	3	7	72	Kanagawa
Niigata	5	4	9		9		8	1	4	1	1	3	1	2	3	1		2	1	2		2	5	64	Niigata
Toyama	5	4	1		3					1	2		2					1		2	1		3	25	Toyama
Ishikawa	2	2	3		1		1	1	4	3	1	2	1	2	1	1	2	1				1		29	Ishikawa
Fukui	1	1	2		5		1	3				1	1	1	2	1	1				1	1		22	Fukui
Yamanashi																									Yamanashi
Nagano																									Nagano
Gifu					1													1						2	Gifu
Shizuoka	4	6	5		4			2	1	1	2	3	1	1	2	4	1	1	2	1	4	2	1	48	Shizuoka
Aichi	3	3	6		1		3		6	1		5	1	1	3	1		1			1	2		38	Aichi
Mie	6	8	7		4			1	2	4	2	2	3		1	1	3	6	2	3	3		1	59	Mie
Shiga										1														1	Shiga
Kyoto	2		3						1	1						1		1				1		10	Kyoto

Osaka	2		1		1		1			2	2		1				3		1		1	1	1	17	Osaka
Hyogo	6	4	8		5		4	5	2	5	3	4	2	4	1	4	1	3	2		2	5	4	74	Hyogo
Nara																									Nara
Wakayama	11	7	7		1		4	3		1	2	1		3	3			1	2			2	1	49	Wakayama
Tottori	1		1		1		2		1	4	1	1	2			3	2	1		1				21	Tottori
Shimane	1	1	5		4		1	1	3			1		2	1	1					2		2	25	Shimane
Okayama	2		1		2		1		1	1	1	1		2	1	1			1					15	Okayama
Hiroshima	10	8	3		3		2		1	1	3	1	1	1	3	3	1	1	1	2		2	1	48	Hiroshima
Yamaguchi	6	12	6		4		8	2	4	5	1	2	1	3	1	3	1	2	4	2	1	1	1	70	Yamaguchi
Tokushima	2	2	2		2		2	1	1	1		1		1	1	1	1	1			1	2		22	Tokushima
Kagawa	2		2				2		3		2		1	1		1			1	2		1		18	Kagawa
Ehime	8	6	9		1		5	3	3	4	2	3	2	1	2	2	2	1		5	2		3	64	Ehime
Kochi	9	5	8		7		6	4	6	2	2		2	1	2	2		1	1	1		4	2	65	Kochi
Fukuoka	2	8	3		11		6	4	2	1	2	2	2	4	2	1	1	1	3	4	1	1	1	62	Fukuoka
Saga	1				1		1		1	2	1	1	1						2					11	Saga
Nagasaki	20	21	18		9		4	7	6	5	4	5	3	2	5	4	3	3	1		4	4	4	132	Nagasaki
Kumamoto	8	3	8		2		3	5		2	2	3	1	1	3	3	2	2	1	1		1		51	Kumamoto
Oita	4	4	3				4	4	2	3	2	3	1	3	3	2	1	1	2		2		3	47	Oita
Miyazaki	2	2	2				1	1	2				2	2	2			3				3	2	24	Miyazaki
Kagoshima	16	17	11		9		17	9	9	6	4	10	3	6	10	8	3	9	5	5	4	5	7	173	Kagoshima
Okinawa	5	2	5				1	3		3	3	2	1	1	2	2	6	4	3	1	2	4	2	52	Okinawa
total	205	199	189		145		133	97	107	85	82	85	76	79	111	112	76	99	84	69	69	97	92	2,291	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. 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.htm (MHLW, Japan)

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Fatal accidents in port/seaside construction work in Japan in 1999-2021

port/seaside construction work industry Code No.030111

Type of fatal accidents in port/seaside construction work in 1999-2021

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	total	Type of accidents
fall from height		2	1		1		1	1		2						1	1				1	1		12	fall from height
falling to same level																							1	1	falling to same level
crash																									crash
struck by flying or falling object	1	2		1	1				1	1			1				1							9	struck by flying or falling object
collapse	1	1	2				1		1			1		2		1						1		11	collapse
crashed by		1	4		3	2	1			1						1		2	1		1			17	crashed by
caught in/between		4	1	1		1			1		2			1	1	2	1		1				1	17	caught in/between
cut																1								1	cut

injury to the sole of the foot																									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	drown
contact to high/low-temperature				1			1								1									3	contact to high/low-temperature
contact to harmful substance		2	1			1				1		1					1						1	8	contact to harmful substance
electric shock																									electric shock
explosion															1									1	explosion
burst																									burst
fire																									fire
traffic accident (public road)	1	1			1				1	1		1			1	2								9	traffic accident (public road)
traffic accident (others)				1					1				1	1									1	5	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others	1												4		1	1		1						8	others
unclassifiable																				1				1	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	137	total

Causal agents (large) of fatal accidents in port/seaside construction work in 1999-2021

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	total	Causal (L) agents
machine		3	1	1	1					1	1		1		1	2			1	1	1		1	16	machine
crane, conveying machine	1	4	2	3	5	2	1		2	1	1	2	2	1	1	2	3	3	1				3	40	crane, conveying machine
other equipment		1	2				1	1	1	1				1		2								10	other equipment
temporary buildings, establishments	1	1	3		1		2		1	1		1		3			1				1	1		17	temporary buildings, establishments
substance, material	1	1							1						1									4	substance, material
load		1								1						1						1		4	load
environment	2	5	2	1	1	5	1	1		2	1	1	5	4	3	1	1		1	2		1	2	42	environment
others													1		1	1		1						4	others
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	137	total

Causal agents (middle) of fatal accidents in port/seaside construction work in 1999-2021

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	total	Causal (M) agents

engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine																1								1	woodworking machine
construction machine		3	1	1	1					1	1		1		1	1			1	1	1		1	15	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine																									general machine
mobile silviculture machine																									mobile silviculture machine
crane		4	2		3	1					1	1				1	1	2	1					17	crane
conveying machine	1				1	1			1			1				1	1							7	conveying machine
vehicle				3	1		1		1	1			2	1	1		1	1					3	16	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment																									welding equipment

kiln, caldron																									kiln, caldron
electric equipment																									electric equipment
human power machine, tools																									human power machine, tools
tools		1	2				1	1	1	1						2								9	tools
other equipments, facilities														1										1	other equipments, facilities
temporary buildings, establishments	1	1	3		1		2		1	1		1		3			1				1	1		17	temporary buildings, establishments
hazards, harmful substances															1									1	hazards, harmful substances
materials	1	1							1															3	materials
load		1								1						1						1		4	load
natural environment	2	5	2	1	1	5	1	1		2	1	1	5	4	3	1	1		1	2		1	2	42	natural environment
other causal agent																									other causal agent
no causal agent													1		1	1		1						4	no causal agent
unclassifiable																									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	137	total

Causal agents (small) of fatal accidents in port/seaside construction work in 1999-2021

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	total	Causal (S) agents
engine																									engine
power transmission mechanism																									power transmission mechanism
circular sawing machine																1								1	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																									chain saw
other woodworking machines																									other woodworking machines

leveling, transporting or loading machine		1																		1				2	leveling, transporting or loading machine
excavating machine		1			1										1				1		1			5	excavating machine
foundation work machine			1	1						1													1	4	foundation work machine
hardening machine																									hardening machine
demolition machine		1																						1	demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines											1		1			1								3	other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines																									other metal manufacturing machines

centrifugal machine																									centrifugal machine
mixer, grinder																									mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)
injection molding machine																									injection molding machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines																									other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane																									crane
mobile crane		3	2		3	1					1	1				1	1	2	1					16	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift

cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane		1																						1	other powered crane
truck	1				1	1			1			1				1	1							7	truck
forklift																									forklift
railway equipment																									railway equipment
conveyor																									conveyor
loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines																									other powered conveying machines
cars, bus, motorcycle					1					1					1									3	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles				3			1		1				2	1			1	1					3	13	other vehicles
boiler																									boiler

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

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

inflammable gas															1									1	inflammable gas
harmful substance																									harmful substance
radiation																									radiation
other hazards, harmful substances																									other hazards, harmful substances
metal material									1															1	metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials	1	1																						2	other materials
load		1								1						1								3	load
machine/equipment as load																						1		1	machine/equipment as load
natural ground, rock																									natural ground, rock
standing tree																									standing tree
water	1	3	1		1	3		1		1	1		5	4	2				1	2		1	1	28	water
abnormal environment	1	2	1			1				1		1					1						1	9	abnormal environment
high/cold temperature environment				1			1								1									3	high/cold temperature environment
other environments						1										1								2	other environments
other causal agent																									other causal agent

no causal agent													1		1	1		1						4	no causal agent
unclassifiable																									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	137	total

Workers age of fatal accidents in port/seaside construction work in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less																									19 years old or less
20-29		1		2	1	1								1		2								8	20-29
30-39	1	2	4	1	1	1		1	2	3		1	1	2	1	1	1	1	1		1	1		27	30-39
40-49	2	4	1	1	1	4	2				1			2	2	2	2			1				25	40-49
50-59	1	3	3	1	4		2	1	2	3	1	2	6	1	3	2	2			2			2	41	50-59
60 years old or more	1	6	2		1	1	1		1	1	1	1	2	3	1	2		3	2		1	2	4	36	60 years old or more
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	137	total

Workers' number of workplace of fatal accidents in port/seaside construction work in 1999-2021

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	total	Workers scale
9 workers or less	1	4	4	2		3	1		2	2	3	1	1	5	3	1	3			1	2	1	2	42	9 workers or less
10-29	2	5	2	2	4	2	2	1	1	5		2	2	1		6	2	1	1			1	1	43	10-29
30-49	2	2	1		3	1	2						6	3	4			1	2			1	3	31	30-49
50-99		2	1	1	1			1	1			1				1		1		2				12	50-99

100-299		3	2			1			1									1						8	100-299
300 workers or more																1								1	300 workers or more
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	137	total

Month of fatal accidents in port/seaside construction work in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January				1						1					1		1		1			1		6	January
February			3		2			1			2					1	1		1		1			12	February
March	2	1	1	1	1							1	4	3		1		1		1			2	19	March
April		1			1									1	1			1						5	April
May		1					1		1							1	1					1		6	May
June		6						1						4		1				1				13	June
July		1	1	1	1					2						2			1		1			10	July
August		1	1	1	1		1			1		2			3	1	1			1			1	15	August
September	2	1	1		1	2			2	1		1	2					2						15	September
October	1	1				4	1		1						1	1	1						3	14	October
November		2			1	1	2		1	2			1											10	November
December		1	3	1							1		2	1	1	1						1		12	December
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	137	total

Prefecture of fatal accidents in port/seaside construction work in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	1	3	1	1	1	2		1	1									1					1	13	Hokkaido
Aomori									1															1	Aomori
Iwate		1			1								3			1	1		1	1		1	1	11	Iwate
Miyagi		2													1	2	1				2		1	9	Miyagi
Akita		1																						1	Akita
Yamagata																1								1	Yamagata
Fukushima						1	1						1		1	1			2					7	Fukushima
Ibaraki										1	1		1	2			1							6	Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba					1	2								1								1		5	Chiba
Tokyo										1						1							1	3	Tokyo
Kanagawa			2		1	1				1	1		2										1	9	Kanagawa
Niigata			1		1										2									4	Niigata
Toyama																							1	1	Toyama
Ishikawa		1							1	1														3	Ishikawa
Fukui								1																1	Fukui
Yamanashi																									Yamanashi
Nagano																									Nagano
Gifu																									Gifu

Shizuoka					2							1				1	1							5	Shizuoka
Aichi			1							1					1									3	Aichi
Mie																									Mie
Shiga																									Shiga
Kyoto	1																							1	Kyoto
Osaka																									Osaka
Hyogo				1												1	1							3	Hyogo
Nara																									Nara
Wakayama		1																						1	Wakayama
Tottori									1															1	Tottori
Shimane	1																							1	Shimane
Okayama																									Okayama
Hiroshima	1	3	1			1								1	1									8	Hiroshima
Yamaguchi			1																					1	Yamaguchi
Tokushima																									Tokushima
Kagawa			1	1					1					1										4	Kagawa
Ehime				1																				1	Ehime
Kochi			1											1				2						4	Kochi
Fukuoka											1		1							1				3	Fukuoka
Saga							1																	1	Saga
Nagasaki	1	1			1							1	1		1			1				1		8	Nagasaki
Kumamoto			1									1												2	Kumamoto
Oita		1					1							3										5	Oita

Miyazaki																									Miyazaki
Kagoshima		2		1			1			1		1												6	Kagoshima
Okinawa							1			1						1				1				4	Okinawa
total	5	16	10	5	8	7	5	2	5	7	3	4	9	9	7	9	5	4	3	3	2	3	6	137	total

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

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