Fatal and non-fatal accidents in subway construction work in Japan in 1999-2021

subway construction work industry Code No.030103

Type of accidents in subway 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	12	7	4	3	4	2		5	1	5	1	3		1	2	1	1	3	1					56	fall from height
falling to same level	7	1		3	1	1	1	2			2	1		2	1	1	1	1		2	1	1	1	30	falling to same level
crash	3	2		1			1				1				1					2	1			12	crash
struck by flying or falling object	10	3	2	2		4	5		1	2	1	2			1			1		1				35	struck by flying or falling object
collapse	5	2	2	1			1	1		1														13	collapse
crashed by	3	1	5	1	1	1	1		3		1	3	1		1	1								23	crashed by
caught in/between	4	5	3	1	3	2	1	2	1	3	1	2	1				1	1	2		2	4		39	caught in/between
cut	1					1		3	1		1									1	1			9	cut
injury to the sole of the foot								1																1	injury to the sole of the foot
drown				1																				1	drown
contact to high/low- temperature		2																						2	contact to high/low- temperature

contact to harmful substance										1	1													2	contact to harmful substance
electric shock		1										1												2	electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)	9		1	1		5							4	2				6						28	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion	3								1	1									1	1			1	8	reaction to motion/improper motion
others															1									1	others
unclassifiable																									unclassifiable
total	57	24	17	14	9	16	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	262	total

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

Causal (L) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		Causal (L)
Causar (L) agents	1333	2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2013	2020	2021	totai	agents
machine	2	3	2		3	2	2	2	3		2	2				1	1	1	2		3	2		33	machine
crane, conveying																									crane,

machine	15	2	4	2		5	2	2	2	2		1	4	3				7		1	1	1		54	conveying
macrime																									machine
ather equipment	10	3	1	3	2	1	3	2		5	1	3			1			1	1	1				38	other
other equipment		3		3			5			J		3							•	1					equipment
to no no no no horidin as																									temporary
temporary buildings, establishments	14	8	6	5	3	4		7	1	4	2	4	1	1	4	1	2	3	1	4	1	1	2	79	buildings,
establishments																									establishments
substance, material	12	6	3		1	2	1	1	1	2	4	2	1		1					1				39	substance,
substance, material								1	ľ											•					material
load	2	1	1	2		1	1		1													1		10	load
environment				1			1							1		1								4	environment
others	2	1		1											1									5	others
total	57	24	17	14	9	16	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	262	total

Causal agents (middle) of fatal and non-fatal accidents in subway 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	1		1	1		1													6	woodworking machine

construction machine	1	2	2		2	1	2		1		1	2				1		1	1			2	19	construction
																								machine
metal manufacturing																								metal
machine																			I				3	manufacturing machine
general machine		1							1								1				2		5	general machine
																								mobile
mobile silviculture																								silviculture
machine																								machine
crane	4	1	3	1			2	1	2	1										1	1	1	18	crane
																								conveying
conveying machine	3	1				5		1		1		1	4	1				1					18	machine
vehicle	8		1	1										2				6					18	vehicle
pressure vessel																								pressure vessel
chemical facilities																								chemical
Chemical facilities																								facilities
welding equipment																								welding
weiding equipment																								equipment
kiln, caldron																								kiln, caldron
electric equipment		1										1											2	electric
electric equipment												ľ												equipment
human power machine,	3			2		1	1	2		1					1								11	human power
tools																							11	machine, tools

tools	7	2	1	1	2		2			4	1	2						1	1	1				25	tools
other equipments,																									other equipments, facilities
temporary buildings, establishments	14	8	6	5	3	4		7	1	4	2	4	1	1	4	1	2	3	1	4	1	1	2	79	temporary buildings, establishments
hazards, harmful substances		2								1														3	hazards, harmful substances
materials	12	4	3		1	3	1	1	1	1	4	2	1		1					1				36	materials
load	2	1	1	2		1	1		1													1		10	load
natural environment				1			1							1		1								4	natural environment
other causal agent															1									1	other causal agent
no causal agent	2	1		1																				4	no causal agent
unclassifiable																									unclassifiable
total	57	24	17	14	9	16	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	262	total

Causal agents (small) of fatal and non-fatal accidents in subway 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															power transmission
mechanism															mechanism
circular sawing					1	1	1							3	circular sawing
machine					Ľ										machine
band sawing															band sawing
machine															machine
wood planer															wood planer
machine															machine
hollow chisel															hollow chisel
mortiser, wood															mortiser, wood
borer															borer
chamfering															chamfering
machine, router,															machine, router,
woodworking															woodworking
milling machine															milling machine
chain saw															chain saw
other woodworking			1											1	other woodworking
machines			ľ											II • I	machines
leveling,															leveling,
transporting or		1	1											2	transporting or
loading machine															loading machine
excavating machine		1	1			1		2			1		2	8	excavating machine
foundation work															foundation work
machine															machine

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hardening machine													1		1			2	hardening machine
demolition machine									1									1	demolition machine
vehicle for high lift work																			vehicle for high lift work
other construction machines					2													2	other construction machines
lathe																			lathe
drill press, milling machine																			drill press, milling machine
grinding machine, buffing machine						1									1	1		∥3	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																			injection molding

machine																	machine
food manufacturing																	food manufacturing
machine				<u> </u>												<u> </u>	machine
printing machine																	printing machine
industrial robot																	industrial robot
other general						1					1					4	other general
power machines						I								2		4	power machines
felling machine																	felling machine
mobile logging																	mobile logging
machine																	machine
skyline yarding																	skyline yarding
machine																	machine
other mobile																	other mobile
silviculture machine																	silviculture machine
crane		1														1	crane
mobile crane		2			2	1	1						1	1	1	9	mobile crane
derrick crane																	derrick crane
elevator, lift																	elevator, lift
cargo lifting																	cargo lifting
appliance																	appliance
gondola																	gondola
lumberyard																	lumberyard
equipment, logging																	equipment, logging

cableway																cableway
simple skyline yarding equipment																simple skyline yarding equipment
other powered crane					1	1									2	other powered crane
truck					1				4	1		1			7	truck
forklift																forklift
railway equipment								1							1	railway equipment
conveyor																conveyor
loader																loader
straddle carrier																straddle carrier
rough terrain hauler																rough terrain hauler
other powered conveying machines							1								1	other powered conveying machines
cars, bus, motorcycle		1								2		6			9	cars, bus, motorcycle
railway vehicle																railway vehicle
other vehicles																other vehicles
boiler																boiler
pressure vessel																pressure vessel
other pressure vessels																other pressure vessels
chemical facilities																chemical facilities

gas welding																	gas welding
equipment																	equipment
arc welding																	arc welding
equipment																	equipment
other welding																	other welding
equipment																	equipment
kiln, caldron																	kiln, caldron
industrial dryer																	industrial dryer
other kiln, caldron																	other kiln, caldron
transmission																	transmission
electric power																	electric power
facilities																	facilities
other electrical								1								1	other electrical
equipment								•								<u> </u>	equipment
human power					1											1	human power
cranes					•												cranes
human power				1						1						2	human power
hauling equipment																	hauling equipment
human power																	human power
machine																	machine
hand tool					1	1										2	hand tool
ladder			1			4	1					1	1			8	ladder
slinging tool		1		2				2								5	slinging tool
other tools			1											1		2	other tools

other equipment,																						other equipment,
facilities																						facilities
scaffolding		1	2		2		1		1			1						1		1	10	scaffolding
timbering		2	1		1		1	2	1					1							9	timbering
stairs, landing stage									1			2					3				6	stairs, landing stage
opening		1			1				1												3	opening
roof, beam, haze,																						roof, beam, haze,
crossbeam,																						crossbeam,
principal rafter																						principal rafter
working platform,		1				1					1										2	working platform,
boot board		ı				I					1										3	boot board
passage					2										1	1	1		1	1	7	passage
building,		1					2					1	1		1						6	building,
establishment		1										I									0	establishment
other temporary																						other temporary
buildings,					1					1				1	1						4	buildings,
establishments																						establishments
explosive substance																						explosive substance
inflammable																						inflammable
substance																						substance
inflammable gas																						inflammable gas
harmful substance							1														1	harmful substance
radiation																						radiation
other hazards,																						other hazards,

harmful substances																						harmful substances
metal material		3		1	1			2	2	1		1					1				12	metal material
lumber, bamboo			1																		1	lumber, bamboo
stone, sand, substance						1		2													3	stone, sand, substance
other materials							1														1	other materials
load		1				1													1		3	load
machine/equipment as load				1																	1	machine/equipment as load
natural ground,				1																	1	natural ground,
standing tree																						standing tree
water																						water
abnormal environment																						abnormal environment
high/cold																						high/cold
temperature																						temperature
environment																						environment
other environments											1		1								2	other environments
other causal agent												1									1	other causal agent
no causal agent																						no causal agent
unclassifiable																						unclassifiable
total		17	9	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	151	total

Workers age of fatal and non-fatal accidents in subway 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	1	1				1							1											4	19 years old or less
20-29	13	2	3	2	1	4	1	2	1	1	2		1		1			1						35	20-29
30-39	7	5	2	6	2	3	3	3	4	3	1	3	2	1	2		1	1			2			51	30-39
40-49	14	7	4	2	3	4	1	2	2	5	1	5	1	4	1	2	1	5	2	4			2	72	40-49
50-59	16	7	6	2	3	3	5	5	1	4	3	1			1		1	2	1	1	2	5		69	50-59
60 years old or	6	2	2	2		1		2			2	3	1		2	1		3	1	2	1			31	60 years old or
more																			<u> </u>		•			ll l	more
total	57	24	17	14	9	16	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	262	total

Workers' number of workplace of fatal and non-fatal accidents in subway 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	19	9	5	2	3	6	3	6	4	7	4	4	4	1	3		2	5	3	3	1		1	95	9 workers or less
10-29	15	5	5	7	2	4	4	6	2	6	4	7	2	2	1	1		2		4	4	4	1	88	10-29
30-49	11	3	2	2	3	5	1	2	2		1			2	1	2	1	5	1					44	30-49
50-99	10	5	2	2	1	1	2					1			2							1		27	50-99
100-299	2	2	2	1																				7	100-299
300 workers or			1																					1	300 workers or
more																									more
total	57	24	17	14	9	16	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	262	total

Month of fatal and non-fatal accidents in subway 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	6	5		1				3				2			1			1				2	1	22	January
February	2		1	1		2	3	2		1				2	2	1	1							18	February
March	3	5	2	1	2			1	1	1	1		4					2		1	1			25	March
April	4	1	1	2		2	1	1	3		1	2					1		1					20	April
May	9	3		2			1	1				3							1	1				21	May
June	3	2	1	1		11			2			2				1		6		1	3			33	June
July	8	1	1	2			2	3		2								1	1	1		1		23	July
August	4	1		1	1		1		1	1	2		1										1	14	August
September	5	3	1	1	1		1	1		2					1					2				18	September
October	8	2	3		2	1		1	1	2	2				1						1	1		25	October
November	4	1	3	2	1			1		1	2	1	1	2	1	1	1	1	1	1				25	November
December	1		4		2		1			3	1	2		1	1			1				1		18	December
total	57	24	17	14	9	16	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	262	total

Prefecture of fatal and non-fatal accidents in subway 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																									Hokkaido
Aomori																									Aomori

lwate																						lwate
Miyagi								1	2	3	1	4	2	1							14	Miyagi
Akita																						Akita
Yamagata										1											1	Yamagata
Fukushima																						Fukushima
lbaraki																						lbaraki
Tochigi			1																		1	Tochigi
Gunma																						Gunma
Saitama	10	2		1																	13	Saitama
Chiba	1		1				1														3	Chiba
Tokyo	34	10	5	2	4	12	3	8	5	6	5	1	3	2	2	6	4	3	1		116	Tokyo
Kanagawa	2	3	1	3	1	1										5		1	2	2	21	Kanagawa
Niigata																						Niigata
Toyama																						Toyama
Ishikawa																						Ishikawa
Fukui																						Fukui
Yamanashi																						Yamanashi
Nagano																						Nagano
Gifu																						Gifu
Shizuoka													1								1	Shizuoka
Aichi	3	2		1			1	4	2	2											15	Aichi
Mie							1														1	Mie
Shiga																						Shiga

								$\overline{}$								
		1			1										2	Kyoto
			1	4		2								2	9	Osaka
5	1								1						7	Hyogo
																Nara
																Wakayam
																Tottori
																Shimane
																Okayama
																Hiroshima
																Yamaguch
																Tokushim
																Kagawa
																Ehime
																Kochi
2	6	8	1	1						1		3	2	3	27	Fukuoka
																Saga
																Nagasaki
																Kumamot
																Oita
																Miyazaki
																Kagoshim
											1				1	Okinawa

total	57		17		9	1	10	14	8	13	9	12	6	5	7	3	3	12	4	7	5	5	2	232	total	
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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)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

Fatal accidents in subway construction work in Japan in 1999-2021

subway construction work industry Code No.030103

Type of fatal accidents in subway 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				1			1																	2	fall from height
falling to same level																									falling to same
laming to same level																									level
crash																									crash
struck by flying or																									struck by flying
falling object																									or falling object
collapse			1																					1	collapse
crashed by							1																	1	crashed by
																									caught

caught in/between												1	1	in/between
cut														cut
injury to the sole of the foot														injury to the sole of the foot
drown														drown
contact to high/low- temperature														contact to high/low- temperature
contact to harmful substance														contact to harmful substance
electric shock														electric shock
explosion														explosion
burst														burst
fire														fire
traffic accident (public road)	1												1	traffic accident (public road)
traffic accident (others)														traffic accident (others)
reaction to motion/improper motion														reaction to motion/improper motion
others														others
unclassifiable														unclassifiable

- [1		\Box		\Box		\Box	\Box		\Box	\Box	Ĺ	1										
	total	1	1	1			2											1		6	total	

Causal agents (large) of fatal accidents in subway 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							1																	1	machine
crane, conveying machine	1																					1		2	crane, conveying machine
other equipment																									other equipment
temporary buildings, establishments			1	1			1																	3	temporary buildings, establishments
substance, material																									substance, material
load																									load
environment																									environment
others																									others
total	1		1	1			2															1		6	total

Causal agents (middle) of fatal accidents in subway 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																									woodworking machine
construction machine							1																	1	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine																									general machine
mobile silviculture machine																									mobile silviculture machine
crane																						1		1	crane
conveying machine	1																							1	conveying machine
vehicle																									vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical

															facilities
welding equipment															welding
															equipment
kiln, caldron															kiln, caldron
electric equipment															electric
															equipment
human power machine,															human power
tools															machine, tools
tools															tools
ather equipments															other
other equipments, facilities															equipments,
lacinties															facilities
tomporany buildings															temporary
temporary buildings, establishments		1	1		1									3	buildings,
establishments															establishments
hazards, harmful															hazards,
substances															harmful
substances															substances
materials															materials
load															load
															natural
natural environment															environment
															other causal
other causal agent															agent

no causal agent															no causal
no causar agent															agent
unclassifiable															unclassifiable
total	1	1	1		2								1	6	total

Causal agents (small) of fatal accidents in subway 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																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,																									machine, router,
woodworking																									woodworking
milling machine																									milling machine

other woodworking machines leveling, transporting or loading machine excavating machine foundation work machine	chain saw														chain saw
leveling, transporting or loading machine excavating machine excavatin															_
transporting or loading machine excavating machine excavation excavatio	machines														machines
loading machine excavating machine excavating machine foundation work machine hardening machine demolition machine demolition machine vehicle for high lift work other construction machines lathe drill press, milling machine grinding machine, buffing machine grinding machine power press forging pressure hammer loading machine excavating machine excavating machine foundation work machine machine lathe lathe lathe lathe lathe lathe lathe lathe grinding machine, buffing machine power press forging pressure hammer	leveling,														leveling,
excavating machine foundation work machine hardening machine demolition machine demolition machine vehicle for high lift work other construction machines lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer excavating machine foundation work machine machine demolition machine demol	transporting or														transporting or
foundation work machine hardening machine demolition machine vehicle for high lift work other construction machines lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer	loading machine														loading machine
machine hardening machine demolition machine vehicle for high lift work other construction machines lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer machine grinding machine, buffing machine power press forging pressure hammer	excavating machine														excavating machine
hardening machine demolition machine wehicle for high lift work work other construction machines lathe drill press, milling machine grinding machine buffing machine buffing machine power press forging pressure hammer	foundation work														foundation work
demolition machine vehicle for high lift work other construction machines lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer demolition machine vehicle for high lift work vehicle for high lift vehicle for high lift work vehicle for high lift vehicle for high lift work vehicle for high lift vehicle for high lift work vehicle for high lift vehicle for high lift work vehi	machine														machine
vehicle for high lift work other construction machines lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer	hardening machine														hardening machine
work other construction machines lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer other construction machine lathe lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer	demolition machine														demolition machine
other construction machines lathe lathe drill press, milling machine grinding machine, buffing machine power press forging pressure hammer other construction machine lathe lathe drill press, milling machine, buffing machine grinding machine lathe lathe drill press, milling machine lathe grinding machine	vehicle for high lift														vehicle for high lift
machines athe	work														work
lathe drill press, milling machine drill press, milling machine grinding machine grinding machine buffing machine power press power press forging pressure hammer lather l	other construction				1									1	other construction
drill press, milling machine grinding machine, buffing machine power press forging pressure hammer drill press, milling machine machine machine machine grinding machine	machines														machines
machine grinding machine, buffing machine power press forging pressure hammer machine machine machine grinding machine, buffing machine power press forging pressure hammer	lathe														lathe
grinding machine, buffing machine grinding machine, buffing machine buffing machine power press power press forging pressure hammer	drill press, milling														drill press, milling
buffing machine buffing machine buffing machine buffing machine power press power press forging pressure hammer forging pressure hammer buffing machine buffing machine buffing machine power press power press power press forging pressure hammer buffing machine buffing machine power press power pr	machine														machine
power press power press power press pressure hammer power press power press power press power press power press pressure hammer power press power pres	grinding machine,														grinding machine,
forging pressure hammer forging pressure	buffing machine														buffing machine
hammer hammer	power press														power press
	forging pressure														forging pressure
shearing machine shearing machine shearing machine	hammer														hammer
	shearing machine														shearing machine

other metal													other metal
manufacturing													manufacturing
machines													machines
centrifugal machine													centrifugal machine
mixer, grinder													mixer, grinder
roll machine (except													roll machine (except
printingroll													printingroll
machine)													machine)
injection molding													injection molding
machine													machine
food manufacturing													food manufacturing
machine													machine
printing machine													printing machine
industrial robot													industrial robot
other general													other general
power machines													power machines
felling machine													felling machine
mobile logging													mobile logging
machine													machine
skyline yarding													skyline yarding
machine													machine
other mobile													other mobile
silviculture machine													silviculture machine
crane													crane

mobile crane												1	1	mobile crane
derrick crane														derrick crane
elevator, lift														elevator, lift
cargo lifting														cargo lifting
appliance														appliance
gondola														gondola
lumberyard														lumberyard
equipment, logging														equipment, logging
cableway														cableway
simple skyline														simple skyline
yarding equipment														yarding equipment
other powered														other powered
crane														crane
truck	1												1	truck
forklift														forklift
railway equipment														railway equipment
conveyor														conveyor
loader														loader
straddle carrier														straddle carrier
rough terrain hauler														rough terrain hauler
other powered														other powered
conveying machines														conveying machines
cars, bus,														cars, bus,
motorcycle														motorcycle

1	 												
railway vehicle													railway vehicle
other vehicles													other vehicles
boiler													boiler
pressure vessel													pressure vessel
other pressure													other pressure
vessels													vessels
chemical facilities													chemical facilities
gas welding													gas welding
equipment													equipment
arc welding													arc welding
equipment													equipment
other welding													other welding
equipment													equipment
kiln, caldron													kiln, caldron
industrial dryer													industrial dryer
other kiln, caldron													other kiln, caldron
transmission													transmission
electric power													electric power
facilities													facilities
other electrical													other electrical
equipment													equipment
human power													human power
cranes													cranes

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

establishments													establishments
explosive substance													explosive substance
inflammable													inflammable
substance													substance
inflammable gas													inflammable gas
harmful substance													harmful substance
radiation													radiation
other hazards,													other hazards,
harmful substances													harmful substances
metal material													metal material
lumber, bamboo													lumber, bamboo
stone, sand,													stone, sand,
substance													substance
other materials													other materials
load													load
machine/equipment													machine/equipment
as load													as load
natural ground,													natural ground,
rock													rock
standing tree													standing tree
water													water
abnormal													abnormal
environment													environment
high/cold													high/cold

temperature															temperature
environment															environment
other environments															other environments
other causal agent															other causal agent
no causal agent															no causal agent
unclassifiable															unclassifiable
total	1	1	1		2								1	6	total

Workers age of fatal accidents in subway 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																	1	20-29
30-39																									30-39
40-49	1		1				1																	3	40-49
50-59																						1		1	50-59
60 years old or				1																				1	60 years old or
more				•																					more
total	1		1	1			2															1		6	total

Workers' number of workplace of fatal accidents in subway 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			1									2	9 workers or less
10-29					1								1	2	10-29
30-49	1		1											2	30-49
50-99															50-99
100-299															100-299
300 workers or															300 workers or
more															more
total	1	1	1		2								1	6	total

Month of fatal accidents in subway 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																									January
February				1																				1	February
March																									March
April																									April
May	1						1																	2	May
June																									June
July							1															1		2	July
August																									August
September																									September
October			1																					1	October
November																									November

December															December
total	1	1	1		2								1	6	total

Prefecture of fatal accidents in subway 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																									Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima																									Fukushima
Ibaraki																									Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba																									Chiba
Tokyo																									Tokyo
Kanagawa				1																				1	Kanagawa
Niigata																									Niigata
Toyama																									Toyama
Ishikawa																									Ishikawa

Fukui														Fukui
Yamanashi														Yamanash
Nagano														Nagano
Gifu														Gifu
Shizuoka														Shizuoka
Aichi														Aichi
Mie														Mie
Shiga														Shiga
Kyoto														Kyoto
Osaka				2									2	Osaka
Hyogo	1												1	Hyogo
Nara														Nara
Wakayama														Wakayam
Tottori														Tottori
Shimane														Shimane
Okayama														Okayama
Hiroshima														Hiroshima
Yamaguchi														Yamaguch
Tokushima														Tokushim
Kagawa														Kagawa
Ehime														Ehime
Kochi														Kochi
Fukuoka		1										1	2	Fukuoka

Saga															Saga
Nagasaki															Nagasaki
Kumamoto															Kumamoto
Oita															Oita
Miyazaki															Miyazaki
Kagoshima															Kagoshima
Okinawa															Okinawa
total	1	1	1		2								1	6	total

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

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html