Fatal and non-fatal accidents in auto mobile practical training in Japan in 1999-2021

auto mobile practical training industry Code No.120101

Type of accidents in auto mobile practical training 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	6	15	10	12	9	11	15	12	7	10	13	7	6	7	9	2	14	7	10	13	16	14	19	244	fall from height
falling to same level	35	43	37	31	36	36	39	43	37	37	26	24	25	29	29	32	24	28	25	32	21	31	43	743	falling to same
crash	4	4	2	5	1	5	4	8	4	1	6	4	1	7	3	3	4	5	2	4	8	3	7	95	crash
struck by flying or falling object	5	1	1		3	1	4		2	1	3	3		1			1		1		1		1	29	struck by flying or falling object
collapse							1								1	1		1	1				2	7	collapse
crashed by	9	6	9	4	6	12	5	4	3	2	5	2	2	2	5	2	1	5	3		3	3	7	100	crashed by
caught in/between	6	3	4	1	2	5	3	2	3	2	4	2	7	3	5	1	3	1	3	2	6	3	3	74	caught in/between
cut	2		1	1	2		1	1	3		1				1	2	2	2				1	1	21	cut
injury to the sole of the foot				1																	1	1		3	injury to the sole of the foot
drown													2											2	drown
contact to high/low- temperature				1		1		1				2			1					1	2			9	contact to high/low- temperature

contact to harmful																									contact to
substance							2																	2	harmful
substance																									substance
electric shock																									electric shock
explosion							1																	1	explosion
burst																		1						1	burst
fire																									fire
traffic accident (public	16	12	7	8	6	1	5	9	9	10	6	6	6	10	9	7	5	6	10	7	12	5	2	174	traffic accident
road)	10	12		0		I	3	9	9		0	0	0		9		5		10		12			174	(public road)
traffic accident	3	4	3	5	1	1	2	1	3			1	3	2	1	1	3	1	1		1			37	traffic accident
(others)						ľ		ľ				ľ			•	ļ'								57	(others)
reaction to																									reaction to
motion/improper	7	14	5	8	13	11	11	10	14	13	5	5	9	10	9	10	10	3	15	13	11	11	12	229	motion/improper
motion																									motion
others	1	2		1		1	1	1	1		1	1		2			2			1	1	7	18	41	others
unclassifiable				2																	1			3	unclassifiable
total	94	104	79	80	79	85	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,815	total

Causal agents (large) of fatal and non-fatal accidents in auto mobile practical training 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	total	Causal (L)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2007	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021	II I	agents
machine	6	1	2	2	2	5	4	1	3	1	4	1		2	2	2	2	2	1	2	2	1	4	52	machine
crane, conveying																									crane,

machine	53	62	46	48	35	44	57	48	58	50	35	30	33	43	38	24	30	30	35	28	40	32	39	938	conveying
machine																									machine
athor aguinment	4	9	2	3	7	6	5	7	5	2	6	6	2	5	5	4	10		4	3		6	8	118	other
other equipment			2	3	/	0	3		3			0	2	3	3	4		2	4	3		0	0	110	equipment
tompovom buildings																									temporary
temporary buildings, establishments	20	23	22	14	20	18	20	29	12	15	18	13	19	12	19	23	20	19	15	25	23	25	36	460	buildings,
establishments																									establishments
substance material			1	1	1		2		1					1			1	1	1	1	1	1		14	substance,
substance, material				<u> </u>					1										ľ			'		14	material
load			1		1	2	1	2	1	2	1			1			1			1	2		2	18	load
environment	5	3	1	4	5	2	3	4	3	1	4	2	4	3	5	2	1	3	5	9	1	3	3	76	environment
others	5	6	4	8	8	8	2	1	3	5	2	5	3	6	4	6	4	3	10	4	8	11	23	139	others
total	94	104	79	80	79	85	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,815	total

Causal agents (middle) of fatal and non-fatal accidents in auto mobile practical training 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	1	engine
power transmission mechanism			1															1	1					3	power transmission mechanism
woodworking machine			1				1		2		2			1	1	2		1						11	woodworking machine

construction machine		1		1	1	2	2			1	1			1			2			2			2	16	construction
																									machine
metal manufacturing																									metal
machine				1		1					1	1										1		5	manufacturing
																									machine
general machine	6				1	2	1	1	1						1						2		1	16	general
																									machine
mobile silviculture																									mobile
machine																									silviculture
																									machine
crane											2								1				1	4	crane
conveying machine	3	2	1	1		1	5	6	2	4	1	2	1	5	2	1		2	2	4	6	4	4	59	conveying
																									machine
vehicle	50	60	45	47	35	43	52	42	56	46	32	28	32	38	36	23	30	28	32	24	34	28	34	875	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical
Chemical facilities																									facilities
ualding aguinment																									welding
welding equipment																									equipment
kiln, caldron																									kiln, caldron
																									electric
electric equipment																					2			2	equipment
human power machine,																								1.6	human power
tools	2	2			2		1									2	2		1					16	machine, tools

tools	2	7	1	3	5	4	3	5	4	2	3	3	2	4	5		7	2	3	1	5	6	5	82	tools
other equipments,						1	1	2			3	3		1		2	1			1			3	18	other equipments, facilities
temporary buildings, establishments	20	23	22	14	20	18	20	29	12	15	18	13	19	12	19	23	20	19	15	25	23	25	36	460	temporary buildings, establishments
hazards, harmful substances				1			2																	3	hazards, harmful substances
materials	1		1		1				1					1			1	1	1	1	1	1		11	materials
load			1		1	2	1	2	1	2	1			1			1			1	2		2	18	load
natural environment	5	3	1	4	5	2	3	4	3	1	4	2	4	3	5	2	1	3	5	9	1	3	3	76	natural environment
other causal agent	1	2	2	2	2	4	1	1	1			1		1	1	1	1	1			2	5	19	48	other causal
no causal agent	4	4	2	4	6	4	1		2	5	1	4	2	4	3	4	3	2	10	4	4	6	4	83	no causal agent
unclassifiable				2							1		1	1		1					2			8	unclassifiable
total	94	104	79	80	79	85	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,815	total

Causal agents (small) of fatal and non-fatal accidents in auto mobile practical training 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																	1	1	engine
power transmission mechanism		1											1	1				3	power transmission mechanism
circular sawing machine				1			1			1	1		1					5	circular sawing machine
band sawing machine		1																1	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					2		1		1		1							5	chain saw
other woodworking machines																			other woodworking machines
leveling, transporting or loading machine			1	2		1			1			2			2		2	11	leveling, transporting or loading machine
excavating machine																			excavating machine
foundation work																			foundation work machine

	 	 	 	 		$\overline{}$	 	 	 	 	 	 	
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift													vehicle for high lift
work													work
other construction					1							1	other construction
machines					_							'	machines
lathe													lathe
drill press, milling													drill press, milling
machine													machine
grinding machine,						1						1	grinding machine,
buffing machine												<u> </u>	buffing machine
power press													power press
forging pressure													forging pressure
hammer													hammer
shearing machine					1							1	shearing machine
other metal													other metal
manufacturing											1	1	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													1	1	food manufacturing
machine														11.	machine
printing machine															printing machine
industrial robot															industrial robot
other general			1	1	1	1			1			2		7	other general
power machines			•	•		•			•			_		11.7	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							2				1		1	4	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

	\square	\square			<u> </u>																	
simple skyline																						simple skyline
yarding equipment																						yarding equipment
other powered																						other powered
crane																						crane
truck		1		5	4	2	4	1	2	1	5	2	1		2	1	4	6	3	4	48	truck
forklift																1					1	forklift
railway equipment																						railway equipment
conveyor																						conveyor
loader					1														1		2	loader
straddle carrier																						straddle carrier
rough terrain hauler																						rough terrain hauler
other powered																					1	other powered
conveying machines																					I	conveying machines
cars, bus,					20					24					2.6							cars, bus,
motorcycle		44	35	51	39	55	46	32	27	31	38	35	23	30	26	30	24	33	28	34	661	motorcycle
railway vehicle																						railway vehicle
other vehicles		1		1	3	1			1	1		1			2	2		1			14	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																		2			2	transmission
electric power																						electric power
facilities																						facilities
other electrical																						other electrical
equipment																						equipment
human power																						human power
cranes																						cranes
human power		1		1		1							1			1	1				6	human power
hauling equipment		•		<u> </u>												Ľ						hauling equipment
human power																						human power
machine																						machine
hand tool			2										1	2							5	hand tool
ladder		1	3	1	3	2	1	3	2	1	3	2		6		3	1	5	5	5	47	ladder
slinging tool																						slinging tool
other tools			2	2	2	2	1		1	1	1	3		1	2				1		19	other tools
other equipment,																						other equipment,

facilities				1	2			3	3		1		2	1			1			3	17	facilities
scaffolding					1																1	scaffolding
timbering																						timbering
stairs, landing stage		7	8	6	4	4	5	3	4	6		4	4	7	4	5	4	8	7	13	103	stairs, landing stage
opening										1											1	opening
roof, beam, haze, crossbeam, principal rafter				2								2		1	1		2			1	9	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		1		1	2		2	1	1	4		1	3		1	2				2	21	working platform, boot board
passage		11	8	7	15	7	7	10	5	5	6	7	14	6	9	6	15	8	11	13	170	passage
building, establishment		1	3	3	4	1	1	1	2	1	1	4	1	1	2		2	4	3	3	38	building, establishment
other temporary buildings, establishments		2	1	1	3			3	1	2	5	1	1	5	2	2	2	3	4	4	42	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance																						inflammable substance
inflammable gas																						inflammable gas
harmful substance				1																	1	harmful substance
radiation																						radiation
other hazards,				1																	1	other hazards,

																			<u> </u>			
metal material		1	1								1								1		4	metal material
lumber, bamboo															1	1	1				3	lumber, bamboo
stone, sand,																		1			1	stone, sand,
substance																		ľ				substance
other materials						1								1							2	other materials
load		1	1	1	2	1	2	1			1			1			1	2		2	16	load
machine/equipment																						machine/equipment
as load																						as load
natural ground,		1	1					1									1				6	natural ground,
rock		1																				rock
standing tree			1									1		1	1						4	standing tree
water					1					3											4	water
abnormal																						abnormal
environment																						environment
high/cold																						high/cold
temperature			1													1	1	1			4	temperature
environment																						environment
other environments			2	3	3	3	1	3	1		3	4	2		2	4	7		3	3	44	other environments
other causal agent		2	2	1	1	1			1		1	1	1	1	1			2	5	19	39	other causal agent
no causal agent		2	6	1		2	5	1	4	2	4	3	4	3	2	10	4	4	6	4	67	no causal agent
unclassifiable								1		1	1		1					2			6	unclassifiable
total		79	79	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,452	total

Workers age of fatal and non-fatal accidents in auto mobile practical training 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						1					5	19 years old or less
20-29	15	18	6	12	10	11	13	12	10	19	2	7	7	7	6	4	4	2	6	9	5	7	10	202	20-29
30-39	24	39	23	23	22	25	27	25	20	17	21	24	10	13	19	6	13	7	14	10	13	14	13	422	30-39
40-49	19	17	15	24	14	18	22	22	29	13	20	10	16	16	20	20	21	17	18	14	28	19	30	442	40-49
50-59	22	21	25	18	24	20	20	23	19	16	14	10	19	20	15	16	16	18	16	23	20	20	41	456	50-59
60 years old or	14	9	10	3	8	10	12	9	8	11	13	6	8	17	13	15	15	16	16	17	18	19	21	288	60 years old or
more							12																	200	more
total	94	104	79	80	79	85	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,815	total

Workers' number of workplace of fatal and non-fatal accidents in auto mobile practical training 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	2	1		1	3	3	2	3	2		4	2	1	2	3	5	2		2	1	2	46	9 workers or less
10-29	18	20	15	16	18	17	21	18	17	14	17	17	13	16	18	18	17	13	17	21	16	11	20	388	10-29
30-49	30	38	21	25	19	23	27	26	21	10	17	18	12	22	25	19	22	15	19	24	21	25	32	511	30-49
50-99	28	28	30	27	29	35	32	31	37	37	26	14	23	27	25	17	20	24	26	24	36	27	48	651	50-99
100-299	17	13	11	11	13	9	10	14	9	12	7	7	9	6	3	4	6	2	6	4	9	14	13	209	100-299
300 workers or		1					1				1	1			1	1	1	1	1			1		10	300 workers or
more																•	Ĺ								more
total	94	104	79	80	79	85	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,815	total

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	14	11	7	7	5	7	12	8	8	5	8	6	6	7	5	5	10	8	8	5	8	3	14	177	January
February	10	11	5	6	8	10	11	12	5	8	6	1	2	7	8	7	1	6	8	7	6	10	4	159	February
March	10	13	4	6	4	10	5	6	7	5	3	3	6	4	4	5	10	3	3	3	7	6	7	134	March
April	6	18	6	8	5	8	11	8	6	9	5	6	10	7	7	3	6	4	5	9	11	5	14	177	April
May	8	10	2	5	11	5	7	7	4	7	7	7	6	4	3	7	9	4	3	3	7	6	12	144	May
June	6	6	9	8	8	7	7	5	12	12	5	6	9	6	9	9	7	8	11	10	5	12	5	182	June
July	13	7	7	9	7	7	3	11	9	3	10	9	2	10	7	6	9	4	8	7	10	5	7	170	July
August	5	5	9	12	5	4	4	7	8	2	4	3	3	9	4	4	1	5	5	7	4	4	23	137	August
September	6	4	7	2	5	3	10	2	8	8	3	7	6	3	4	2	4	9	9	4	11	1	12	130	September
October	5	5	9	8	7	7	13	7	7	6	8	1	4	4	10	5	5	5	4	5	7	7	6	145	October
November	3	6	7	7	5	11	6	12	8	8	5	5	1	8	5	1	3	2	3	7	4	9	6	132	November
December	8	8	7	2	9	6	5	7	4	3	6	3	6	4	7	7	4	2	4	6	4	11	5	128	December
total	94	104	79	80	79	85	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,815	total

Prefecture of fatal and non-fatal accidents in auto mobile practical training 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	4	5	4		4		7	9	4	1	6	3	1	4	3	1	4	3	6	4	5	8	5	91	Hokkaido
Aomori	2	1	1		1							1	1		3	2		1	1	3	1	1	2	21	Aomori
lwate	3		2		1		2		3	1	1	3	2	1	1	3	1	3		1	1	1		30	lwate

Miyagi	4	6	5		2	4	1		1	3	4	2	3		2	1	2	2	1	2	2	47	Miyagi
Akita	1	1	1		2			1		1			1		1		1	1	1	1	2	15	Akita
Yamagata	1	2		1	2	1		1	2			2	2	1	1	2	1	1	3		1	24	Yamagata
Fukushima	1	2	1	2	2		2	1	4	1		3	2	2	2		1	3	1		4	34	Fukushima
Ibaraki	2	2	2	2	5	2	3		2		2	1	2	2	1			1			2	31	Ibaraki
Tochigi	2	4		1	3	1	3	3	1	3	3	1			3	1		1	1	1	1	33	Tochigi
Gunma	1	3	2	1	2	2	1		2	2			1		1	2	1	1		1		23	Gunma
Saitama	5	4	5	7	4	6	2	2	5	3	5	3	1	4	2	3	2	4	7	3	9	86	Saitama
Chiba	1	4	1	4	1	3	1	4	2	1	3	2	5	3	2	3	4	1	3	2	5	55	Chiba
Tokyo	9	13	7	9	8	7	4	7	7	5	8	6	4	2	3	2	5	7	14	9	7	143	Tokyo
Kanagawa	8	10	14	9	10	9	9	15	6	7	9	12	10	1	10	7	5	6	3	5	11	176	Kanagawa
Niigata	1	2	1	1	5	4	2	1	2	1			2	5		1	2	3	2	3	11	49	Niigata
Toyama	2					1			1		1	3	1		2	2		2	1	1	2	19	Toyama
Ishikawa				1			1					1	1		1	1			2		3	11	Ishikawa
Fukui	2						2					1		1			1	1	1		2	11	Fukui
Yamanashi		2		1	1				1	1	1	1		2							1	11	Yamanashi
Nagano	3	1	1	2	1		2	1	2		1	1		3	2	4	2	1				27	Nagano
Gifu	1	1	1	2		1			1	1					2		1	2	2	1		16	Gifu
Shizuoka	4	1	2	3	2	3	3	4	1	2	1		1	3		1	3	5	3	3	1	46	Shizuoka
Aichi	3	3		3	4	4	3	5	1		4	4	3	2	3	3	13	4	5	5	8	80	Aichi
Mie	2		1		1	1		1						1				3	1	1	1	13	Mie
Shiga	1					1	2		1		2	1	2		2						2	14	Shiga
Kyoto	2	4		1	6	3	4	2	2	2	1	2	5	1	1	1	2	1	2	1	3	46	Kyoto

Osaka	4	3	7	3	3	2	8	1		3	1	1	4	7	2	3	4	5	4	6	7	78	Osaka
Hyogo	4	4	1		1	4	3	5	2	2	1	2	2		5	4	3		3	3	4	53	Hyogo
Nara			1	3		2		1	2	1		1					1				1	13	Nara
Wakayama		2	1		2	1	2	1		1					1	1				2	1	15	Wakayama
Tottori	1			1		1	1	1				1		1		2		1	1	2		13	Tottori
Shimane	1				2	4	1	1	2			2		1			1	1		1	1	18	Shimane
Okayama	2	1	1	1				1		1		4	2	1	1					2	1	18	Okayama
Hiroshima	3	5	2	5	2	2	4	3	1		1				2	2	1	1	4	1	3	42	Hiroshima
Yamaguchi	2	2					1		1		1				1		1		1			10	Yamaguchi
Tokushima	1	2	1		1		1		1			1									2	10	Tokushima
Kagawa		3	1	1	1			2	1			1		1		1	1	1	1	4	1	20	Kagawa
Ehime		1					1				1	1	2	1	1		1				1	10	Ehime
Kochi	1	1									1						1	1		2		7	Kochi
Fukuoka	2	4	6	2	1	8	5	7	4	3	1	5	4	4	2	4	2	1	1	1	4	71	Fukuoka
Saga		1		1	2	1			2						1			2			1	11	Saga
Nagasaki	2		1	2		1	2		1	1		1		3	2	1			2	3	1	23	Nagasaki
Kumamoto	1	1	1	1	1			1		2			1		2			2	1	2		16	Kumamoto
Oita	1		1	1		1									1	1					1	7	Oita
Miyazaki	1	1				3	3	1	1	1	2		1	1	1				2	1		19	Miyazaki
Kagoshima	1	2	4	1	7		1		1		3	1	3	1	1		2		2		1	31	Kagoshima
Okinawa	2			1	1		1	1		2		1	1	1					2			13	Okinawa
total	94	104	79	79	94	92	86	76	70	57	61	73	73	61	69	60	71	73	84	79	115	1,650	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 auto mobile practical training in Japan in 1999-2021

auto mobile practical training industry Code No.120101

Type of fatal accidents in auto mobile practical training 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	fall from height
falling to same level																									falling to same
laining to same level																									level
crash																									crash
struck by flying or							1																	1	struck by flying
falling object							I																		or falling object
collapse																									collapse
crashed by																									crashed by
saught in/hotwoon																									caught
caught in/between																									in/between
cut																									cut

the foot drown 2 2 0 0 2 drown contact to high/low-temperature 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u> </u>	 -	 		 -	 	 	 -	 	 			 	 		
drown contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable 2 drown contact to harmful substance electric shock explosion burst 1 1 2 2 drown contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) traffic accident (others) contact to harmful substance electric shock explosion traffic accident (public road) traffic accident (others) traffic accident (others) contact to harmful substance electric shock explosion traffic accident (public road) traffic accident (public road) traffic accident (others) traffic accident (others) contact to harmful substance electric shock explosion traffic accident (public road) traffic accident (others) traffic accident (others) contact to harmful substance electric shock explosion traffic accident (public road) traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion traffic accident (public road) traffic accident (public road) traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion explosion traffic accident (public road) traffic acci	injury to the sole of															injury to the sole
contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable	the foot															of the foot
contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable high/low-temperature contact to harmful substance contact to harmful	drown							2							2	drown
temperature contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improger motion others unclassifiable high/low-temperature	contact to high/low															contact to
contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (public road) traffic accident (others) contact to harmful substance explosion traffic accident (public road) traffic accident (public road) traffic accident (others) contact to harmful substance explosion traffic accident (public road) traffic accident (public road) traffic accident (others) contact to harmful substance explosion traffic accident (public road) traffic accident																high/low-
contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable harmful substance substance electric shock electric shock electric shock explosion explosion	temperature															temperature
substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable harmful substance electric shock explosion explosion burst fire fire fire fire traffic accident public road) traffic accident (others) reaction to motion/improper motion others unclassifiable	contact to harmful															contact to
electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable																harmful
explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable explosion burst burst fire traffic accident (public road) 1 1 2 traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable	Substance															substance
burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable burst fire traffic accident (fire) 1 1 1 1 1 1 1 2 traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable	electric shock															electric shock
fire traffic accident (public road) 1 1 1 1 1 1 1 1 1 1 1 1 1	explosion															explosion
traffic accident (public road) traffic accident (others) traffic accident (others) reaction to motion/improper motion others unclassifiable traffic accident (public road) traffic accident (others) traff	burst															burst
road) traffic accident (others) reaction to motion/improper motion others unclassifiable 1	fire															fire
reaction to motion/improper motion thers unclassifiable (public road) (public road) traffic acciden (public road) traffic acciden (public road) (public road) traffic acciden (public road) traffic accident (public road) traffic accid	traffic accident (public			1								1				traffic accident
traffic accident (others) reaction to motion/improper motion others unclassifiable (others) reaction to motion/improper motion others unclassifiable	road)			I								<u> </u>				(public road)
reaction to motion/improper motion others unclassifiable (others) reaction to motion/improper motion others unclassifiable	tureffice a soid out (oth our)															traffic accident
motion/improper motion	tramic accident (otners)															(others)
motion mot	reaction to															reaction to
others others unclassifiable unclassifiable	motion/improper															motion/improper
unclassifiable unclassifiable unclassifiable	motion															motion
	others															others
total 2 1 1 6 total	unclassifiable															unclassifiable
	total			1	1			2			1	1			6	total

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)
machine							1																	1	machine
crane, conveying machine					1														1					2	crane, conveying machine
other equipment																									other equipment
temporary buildings, establishments																		1						1	temporary buildings, establishments
substance, material																									substance, material
load																									load
environment													2											2	environment
others																									others
total					1		1						2					1	1					6	total

Causal agents (middle) of fatal accidents in auto mobile practical training in 1999-2021

Causal (M) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
ausai (M) ageilts	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	totai	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													crane
conveying machine													conveying machine
vehicle		1							1			2	vehicle
pressure vessel													pressure vessel
chemical facilities													chemical facilities
welding equipment													welding equipment

]]]				
kiln, caldron															kiln, caldron
electric equipment															electric
ciccure equipment															equipment
human power machine,															human power
tools															machine, tools
tools															tools
other equipments,															other
facilities															equipments,
															facilities
temporary buildings,															temporary
establishments											1			1	buildings,
CStubilishinerits															establishments
hazards, harmful															hazards,
substances															harmful
Substances															substances
materials															materials
load															load
natural environment														2	natural
natural environment								2						2	environment
other causal agent															other causal
other causar agent															agent
no causal agent															no causal
nio causai agent															agent
unclassifiable															unclassifiable
<u> </u>	 	 			 	-			 	$\overline{}$	 	 \Box	 	 	

total					1		1						2					1	1					6	total	
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Causal agents (small) of fatal accidents in auto mobile practical training 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
chain saw																									chain saw
other woodworking																									other woodworking
machines																									machines

leveling,														leveling,
transporting or				1									1	transporting or
loading machine														loading machine
excavating machine														excavating machine
foundation work														foundation work
machine														machine
hardening machine														hardening machine
demolition machine														demolition machine
vehicle for high lift														vehicle for high lift
work														work
other construction														other construction
machines														machines
lathe														lathe
drill press, milling														drill press, milling
machine														machine
grinding machine,														grinding machine,
buffing machine														buffing machine
power press														power press
forging pressure														forging pressure
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 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
skyline yarding machine														skyline yarding machine
other mobile silviculture machine														other mobile silviculture machine
crane														crane
mobile crane														mobile crane
derrick crane														derrick crane
elevator, lift														elevator, lift
	11		11	11								11		

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													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												2	motorcycle
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													opening
roof, beam, haze,													roof, beam, haze,
crossbeam,									1			1	crossbeam,
principal rafter													principal rafter
working platform,													working platform,
boot board													boot board
passage													passage
building,													building,
establishment													establishment
other temporary													other temporary
buildings,													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							2						2	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			2			1	1			6	total

Workers age of fatal accidents in auto mobile practical training 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	40-49
50-59					1		1											1	1					4	50-59
60 years old or																									60 years old or
more																									more
total					1		1						2					1	1					6	total

Workers' number of workplace of fatal accidents in auto mobile practical training 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																									9 workers or less
10-29					1		1						2					1	1					6	10-29
30-49																									30-49
50-99																									50-99

100-299															100-299
300 workers or															300 workers or
more															more
total			1	1			2			1	1			6	total

Month of fatal accidents in auto mobile practical training 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																									February
March													2											2	March
April																									April
May																									May
June					1														1					2	June
July																									July
August																		1						1	August
September																									September
October							1																	1	October
November																									November
December																									December
total					1		1						2					1	1					6	total

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						1	Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi													2											2	Miyagi
Akita																									Akita
Yamagata							1																	1	Yamagata
Fukushima																									Fukushim
lbaraki																									lbaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba					1																			1	Chiba
Tokyo																									Tokyo
Kanagawa																									Kanagaw
Niigata																									Niigata
Toyama																									Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi																									Yamanas
Nagano																									Nagano
Gifu																									Gifu

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

Miyazaki															Miyazaki
Kagoshima															Kagoshima
Okinawa															Okinawa
total			1	1			2			1	1			6	total

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

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