Fatal and non-fatal accidents in printing service in Japan in 1999-2022

printing service industry Code No.010701

Type of accidents in printing service in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	40	38	68	67	46	47	46	38	45	47	53	32	43	37	37	31	37	39	35	27	33	35	37	39	997
falling to same level	77	75	78	56	72	75	52	81	62	68	74	55	51	74	59	62	54	57	57	77	56	64	58	75	1,569
crash	26	31	26	19	24	26	28	22	23	14	24	16	18	13	11	22	13	16	12	16	17	19	22	13	471
struck by flying or falling object	23	29	20	25	16	27	27	22	20	19	19	16	11	13	13	20	16	13	8	16	14	7	14	7	415
collapse	7	14	7	7	5	8	7	9	7	11	8	7	6	5	8	4	6	10	2	5	11	7	9	3	173
crashed by	25	18	19	11	18	9	10	15	13	12	12	13	10	12	6	13	8	9	9	2	10	7	5	8	274
caught in/between	464	470	398	411	345	357	321	313	289	290	269	236	237	205	204	209	169	173	161	163	146	152	139	141	6,262
cut	51	59	61	50	38	43	37	34	34	30	40	41	25	21	24	18	22	22	20	19	26	26	29	24	794
injury to the sole of the foot			2	1	1											1		2				1			8
drown							1						3												4
contact to high/low-	5	7	3	5	2	5	1	2	3	2	2	9	3		1	1		2	2	4	4	3		2	68

temperature																									
contact to harmful substance	1		5	4	1	3	2	1	1	1	2	3	3	1	1	1	2		2	1	1	5	2	2	45
electric shock		1	2			1	1	1			1	1			1										9
explosion					1								1												2
burst				1					2							1									4
fire		1	2		1		1								2	1	1							1	10
traffic accident (public road)	26	24	13	17	15	13	12	11	10	6	12	9	12	4	15	3	5	4	2	5	3	5	6	5	237
traffic accident (others)	1			1						1	1										1				5
reaction to motion/improper motion	70	52	60	57	52	49	44	48	68	48	46	46	41	45	35	38	31	20	45	45	37	34	39	53	1,103
others	3	1		1	2	2	2	2			2	1	2	2	1	1	4	1	5	1	3	9	10	2	57
unclassifiable	1	1	1	2	1	1	1	1	2	1				1							1				14
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Causal agents (large) of fatal and non-fatal accidents in printing service in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	504	492	434	447	358	395	337	327	319	308	308	269	249	219	219	213	175	180	171	168	152	168	157	143	6,712

crane, conveying machine	66	67	45	53	59	49	60	47	45	47	48	26	36	35	34	34	43	24	33	28	25	19	27	32	982
other equipment	66	67	90	59	57	64	58	59	50	49	51	64	51	42	44	49	38	51	30	42	48	46	51	46	1,272
temporary buildings, establishments	81	78	92	82	78	75	65	76	75	74	80	52	56	78	60	70	59	65	69	70	64	64	70	86	1,719
substance, material	28	42	34	24	23	31	23	29	22	20	20	25	23	18	21	17	18	16	15	11	16	19	17	12	524
load	47	34	40	38	34	24	22	31	46	26	32	23	23	18	18	20	18	21	20	30	29	23	23	24	664
environment	2	6	7	6	3	1	2	5	1	2	5	6	7		3	3	2	4	1	9	5	8	3	9	100
others	26	35	23	26	28	27	26	26	21	24	21	20	21	23	19	20	15	7	21	23	24	27	22	23	548
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Causal agents (middle) of fatal and non-fatal accidents in printing service in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism	13	7	4	10	4	5	4	3	1	6	7	3	2	3	4	2	1	2	2	3	2	3	3	5	99
woodworking machine	2		4	2	3	1	1				4			1				1			3		1	2	25

construction machine																									
metal manufacturing machine	32	21	19	10	18	13	10	15	20	11	11	15	11	6	5	10	11	7	6	8	4	10	10	7	290
general machine	457	464	407	425	333	376	322	309	298	291	286	251	236	209	210	201	163	170	163	157	142	155	143	129	6,297
mobile silviculture machine																					1				1
crane	2	4	6	3	3	5	7	1	6	4	7	4	1	4	3	2	3		2	2	2	4	3	2	80
conveying machine	38	38	26	32	39	27	42	35	30	32	26	12	22	27	17	27	31	19	26	22	17	9	19	25	638
vehicle	26	25	13	18	17	17	11	11	9	11	15	10	13	4	14	5	9	5	5	4	6	6	5	5	264
pressure vessel	1						1																		2
chemical facilities																									
welding equipment						1	1													1					3
kiln, caldron	1	1	1	1		1														1			2		8
electric equipment	1		1					1			1	1								1			1	2	9
human power machine, tools	27	27	40	22	21	25	23	20	20	16	14	32	16	18	12	21	8	19	6	19	21	14	15	16	472
tools	22	23	35	30	26	26	23	26	24	27	28	24	30	15	21	23	26	26	18	16	19	23	27	25	583
other equipments,	14	16	13	6	10	11	10	12	6	6	8	7	5	9	11	5	4	6	6	4	8	9	6	3	195

facilities																									
temporary buildings, establishments	81	78	92	82	78	75	65	76	75	74	80	52	56	78	60	70	59	65	69	70	64	64	70	86	1,719
hazards, harmful substances	3	3	8	5	3	3	3	3	2	1	2	5	3	1	4	2	3		3	1	1	6	1	2	68
materials	25	39	26	19	20	28	20	26	20	19	18	20	20	17	17	15	15	16	12	10	15	13	16	10	456
load	47	34	40	38	34	24	22	31	46	26	32	23	23	18	18	20	18	21	20	30	29	23	23	24	664
natural environment	2	6	7	6	3	1	2	5	1	2	5	6	7		3	3	2	4	1	9	5	8	3	9	100
other causal agent	4	10	6	4	4	5	6	7	3	3	4		4	3	4	3	2	2	4	5	4	7	13	3	110
no causal agent	21	23	17	20	24	21	19	19	16	20	16	19	17	18	15	17	13	5	16	18	18	20	9	20	421
unclassifiable	1	2		2		1	1		2	1	1	1		2					1		2				17
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Causal agents (small) of fatal and non-fatal accidents in printing service in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism			4		4		4	3	1	6	7	3	2	3	4	2	1	2	2	3	2	3	3	5	64
circular sawing			4		2		1				3			1				1			2		1	2	17

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

vehicle for high lift work																									
other construction machines																									
lathe									1								1			1					3
drill press, milling machine			1							1															2
grinding machine, buffing machine			2		2				1								2			1					8
power press					2			4	3	2	1	2	2		1	2				1			2	2	24
forging pressure hammer																									
shearing machine			9		9		9	7	12	7	8	10	8	4	4	8	8	7	5	2	4	10	7	5	143
other metal manufacturing machines			7		5		1	4	3	1	2	3	1	2					1	3			1		34
centrifugal machine									1														1		2
mixer, grinder			1								1												1		3
roll machine (except printingroll machine)			11		7		10	10	11	10	12	11	11	8	8	4	5	7	11	10	5	5	10	7	173
injection molding																									

machine			1																		1	1			3
food manufacturing machine							1	2			1			1	1						1				7
printing machine			336		260		264	233	227	236	219	185	176	161	149	154	114	126	114	98	97	112	104	92	3,457
industrial robot									1				2	1						1					5
other general power machines			58		66		47	64	58	45	53	55	47	38	52	43	44	37	38	48	38	37	27	30	925
felling machine																					1				1
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			2				1				1			1	1		1			1			1	1	10
mobile crane																			1						1
derrick crane																									
elevator, lift			4		2		6	1	5	4	5	2		3	1	1	1		1	1	2	2	1	1	43
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane					1				1		1	2	1		1	1	1					2	1		12
truck			5		5		4	4	6	3	3	1	6	6	4	3	6	2	3	4	4		3	4	76
forklift			15		23		25	20	19	22	16	6	8	14	10	18	15	12	15	10	11	5	9	14	287
railway equipment								1					1			1									3
conveyor			5		8		6	7	4	4	4	1	5	3	3	3	7	3	4	5	1	4	5	6	88
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1		3		7	3	1	3	3	4	2	4		2	3	2	4	3	1		2	1	49
cars, bus, motorcycle			13		15		11	11	9	11	15	10	12	4	13	4	8	4	5	4	6	6	5	5	171
railway vehicle																									
other vehicles					2								1		1	1	1	1							7
boiler																									
pressure vessel																									

other pressure vessels							1																		1
chemical facilities																									
gas welding equipment																				1					1
arc welding equipment							1																		1
other welding equipment																									
kiln, caldron			1																				1		2
industrial dryer																							1		1
other kiln, caldron																				1					1
transmission								1			1												1	2	5
electric power facilities																				1					1
other electrical equipment			1									1													2
human power cranes									1											1	1		2	5	10
human power hauling equipment			18		7		11	11	12	10	9	22	10	11	6	9	3	13	3	14	14	8	9	7	207
human power			4		2					1	2	2	2	1	1	4			1			1		1	22

machine																									
hand tool			18		12		12	9	7	5	3	8	4	6	5	8	5	6	2	4	6	5	4	3	132
ladder			15		15		11	14	15	11	15	9	16	8	12	10	9	12	7	3	4	10	9	5	210
slinging tool			1																						1
other tools			19		11		12	12	9	16	13	15	14	7	9	13	17	14	11	13	15	13	18	20	271
other equipment, facilities			13		10		10	12	6	6	8	7	5	9	11	5	4	6	6	4	8	9	6	3	148
scaffolding									1		1			1		1	1							2	7
timbering																									
stairs, landing stage			28		27		21	25	29	26	28	14	21	23	12	13	25	17	22	16	23	27	27	32	456
opening							2	1		1	3			1	1		1	1	1	1			2	1	16
roof, beam, haze, crossbeam, principal rafter			2						1					1		1	1	1	1			1	1	1	11
working platform, boot board			15		11		7	11	9	10	6	5	10	10	10	7	9	8	9	11	5	5	5	7	170
passage			28		27		26	26	23	23	29	27	16	27	25	30	17	30	26	26	25	21	26	30	508
building, establishment			12		9		6	6	6	10	7	4	4	8	8	9	2	3	5	7	5	4	7	4	126
other temporary buildings, establishments			7		4		3	7	6	4	6	2	5	7	4	9	3	5	5	9	6	6	2	9	109

explosive substance																									
inflammable substance			2		1		1	3	1			2			1		1		1					1	14
inflammable gas									1																1
harmful substance			2				1			1	1	2	2	1	2	2	1		2	1	1		1		20
radiation																									
other hazards, harmful substances			4		2		1				1	1	1		1		1					6		1	19
metal material			9		8		7	8	6	7	6	7	12	7	5	4	4	7	4	5	3	6	5	5	125
lumber, bamboo			3		1			3	1	2		2		2	2	1									17
stone, sand, substance								2	1																3
other materials			14		11		13	13	12	10	12	11	8	8	10	10	11	9	8	5	12	7	11	5	200
load			37		31		19	29	45	23	29	20	22	16	16	20	15	19	18	27	29	22	22	22	481
machine/equipment as load			3		3		3	2	1	3	3	3	1	2	2		3	2	2	3		1	1	2	40
natural ground, rock			1				1		1	1	1										1				6
standing tree													1									1			2
water								1					4												5
abnormal environment												1								1					2

high/cold temperature environment			2								1	2				1		1		3	3	2		3	18
other environments			4		3		1	4		1	3	3	2		3	2	2	3	1	5	1	5	3	6	52
other causal agent			6		4		6	7	3	3	4		4	3	4	3	2	2	4	5	4	7	13	3	87
no causal agent			17		24		19	19	16	20	16	19	17	18	15	17	13	5	16	18	18	20	9	20	336
unclassifiable							1		2	1	1	1		2					1		2				11
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Workers age of fatal and non-fatal accidents in printing service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	40	29	24	24	28	23	22	17	23	23	11	19	21	17	15	20	10	9	11	10	8	13	10	12	439
20-29	242	268	248	224	189	180	176	175	143	129	121	91	112	80	84	74	77	61	74	65	65	55	63	50	3,046
30-39	156	157	174	161	130	169	135	135	130	157	168	149	110	115	93	108	74	72	76	73	63	68	58	64	2,795
40-49	141	129	127	115	93	111	84	103	112	95	90	94	105	90	97	96	78	111	96	101	99	104	97	82	2,450
50-59	184	187	151	151	146	123	124	111	119	97	105	74	70	85	80	79	82	76	69	86	73	80	83	113	2,548
60 years old or more	57	51	41	60	54	60	52	59	52	49	70	58	48	46	49	49	47	39	34	46	55	54	59	54	1,243
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Workers' number of workplace of fatal and non-fatal accidents in printing service in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	155	129	135	142	107	108	89	91	96	79	77	69	56	48	61	52	52	47	35	36	27	34	34	23	1,782
10-29	215	220	200	199	170	158	144	131	134	131	138	115	110	88	91	91	68	74	65	75	80	73	66	79	2,915
30-49	121	134	108	102	89	98	89	111	86	97	99	93	85	82	70	72	53	58	63	58	69	74	59	62	2,032
50-99	111	152	123	116	106	134	108	116	111	100	88	90	88	92	79	84	72	77	73	86	72	84	85	76	2,323
100-299	145	108	129	116	113	115	120	100	103	95	118	75	82	82	79	89	82	79	91	84	74	65	85	82	2,311
300 workers or more	73	78	70	60	55	53	43	51	49	48	45	43	45	41	38	38	41	33	33	42	41	44	41	53	1,158
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Month of fatal and non-fatal accidents in printing service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	68	52	50	55	48	48	49	45	42	40	46	37	41	32	30	29	35	33	28	35	27	32	37	34	973
February	68	83	57	61	62	50	48	47	45	34	42	49	31	35	39	27	34	39	30	35	30	24	32	31	1,033
March	85	75	54	63	55	62	46	46	60	46	48	50	57	46	32	50	35	19	36	42	36	35	36	40	1,154
April	68	62	74	61	61	53	52	48	58	62	45	44	40	36	25	39	36	26	30	28	31	26	34	34	1,073
May	63	63	65	74	53	55	42	59	51	43	40	39	40	32	30	36	28	31	18	31	33	30	23	30	1,009
June	70	67	70	63	67	62	57	56	39	56	51	39	36	38	41	36	33	29	38	25	33	38	28	38	1,110
July	55	73	68	73	68	59	47	54	62	53	59	37	41	36	45	35	24	36	39	27	30	24	26	32	1,103

August	64	86	69	61	44	52	56	53	38	44	44	40	35	38	28	23	25	31	24	39	29	40	40	31	1,034
September	70	59	64	55	56	60	48	50	49	41	41	47	42	34	29	38	38	23	32	29	26	21	34	23	1,009
October	83	78	61	76	43	63	60	51	46	48	58	37	30	34	60	39	27	33	30	26	35	33	27	33	1,111
November	68	66	72	49	35	53	43	45	53	40	45	43	39	34	35	38	30	32	28	34	32	29	24	24	991
December	58	57	61	44	48	49	45	46	36	43	46	23	34	38	24	36	23	36	27	30	21	42	29	25	921
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

Prefecture of fatal and non-fatal accidents in printing service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	24	29	22		11		15	8	12	19	10	10	11	10	12	7	13	6	9	10	12	7	6	9	272
Aomori	3	2	6		3		3	3	3	3	4	2	4	2	5		1				2	2	3	2	53
Iwate	7	8	7		2		3	4	3	3	5	4	6	1	5	1	2		1	3	6	3	3	4	81
Miyagi	10	6	9		13		6	8	12	8	9	11	5	4	9	9	3	4	15	6	3	7	8	1	166
Akita	3	1	2		2		4	4	2	3	2	2	3			3	1	3	1	1	3		1	4	45
Yamagata	5	8	8		4		4	5	1	5	4	6	1	3	5	3	3	2	1	4	3	4	2	4	85
Fukushima	7	7	11		10		15	6	10	11	11	7	6	2	7	6	5	2	7	1	3	8	6	1	149
Ibaraki	16	21	14		17		18	13	11	10	15	9	9	15	9	11	6	14	5	12	9	14	10	14	272
Tochigi	13	8	5		8		4	4	8	5	5	5	4	8	3	4	5	3	3	5	3	4	2	1	110
Gunma	9	9	13		8		8	3	10	7	5	6	9	5	4	6	3	8	3	5	2	8	6	6	143
Saitama	82	73	72		69		66	54	73	58	69	57	42	56	40	41	44	42	40	47	33	37	42	41	1,178

Chiba	30	24	20		25		23	18	16	14	18	9	17	18	17	18	7	14	12	16	14	11	10	14	365
Tokyo	138	118	105		96		70	79	72	59	54	53	58	39	48	46	28	39	35	29	39	39	31	44	1,319
Kanagawa	28	32	22		23		16	22	12	18	17	15	14	14	14	12	10	9	8	7	14	4	21	11	343
Niigata	16	14	20		9		13	12	8	11	8	11	10	6	11	8	8	6	8	12	7	5	10	6	219
Toyama	12	9	5		16		6	3	3	4	4	4	5	3	3	5	2	4	1	7	2	8	5	2	113
Ishikawa	3	11	7		4		6	6	7	5	12	5	5	7	5	8	6	5	6	8	5	5	5	5	136
Fukui	3	3	3		4		2	5	3	4	4	3	2	2	2	4	1	4	1	4	2	2	2	3	63
Yamanashi	1	2			2		2	2	3	2	3	2	1	3	3	1	1	1	1	2	3	1	4	2	42
Nagano	14	13	8		6		5	4	3	10	3	5	8	7	7	4	6	6	8	4	6		3	5	135
Gifu	14	12	16		2		12	5	11	12	17	6	7	11	6	7	6	7	6	10	7	5	5	7	191
Shizuoka	28	29	26		16		15	26	24	19	14	17	22	18	14	17	18	11	10	13	14	9	12	13	385
Aichi	46	59	45		42		40	40	30	28	31	26	30	30	30	33	16	19	17	20	29	23	21	22	677
Mie	6	10	11		8		8	2	5	9	9	7	3	6	7	4	6	3	8	2	10	6	3	5	138
Shiga	13	7	7		3		6	8	5	7	17	10	7	9	6	6	12	10	8	17	2	10	5	5	180
Kyoto	19	22	26		11		21	25	27	19	18	10	20	16	13	25	18	14	17	9	12	10	18	8	378
Osaka	109	106	108		91		75	81	73	76	67	72	53	52	41	45	31	35	50	45	42	45	44	39	1,380
Hyogo	22	24	33		25		17	31	23	25	14	18	12	6	11	9	13	14	20	10	13	12	16	12	380
Nara	6	7	9		5		5	13	7	10	8	8	6	11	4	11	12	4	2	4	5	9	9	16	171
Wakayama	2	3	2		5		5	1	5	8	3	3	5	3	2	1	2	5		2	1	2	2		62
Tottori	4	3			2		2	2	3		2	3	1	1			1	1			2			2	29
Shimane	1	3	3						2	1	2	2	1		2		1			1	2			1	22

Okayama	6	8	6		7		11	7	5	15	8	3	3	2	5	11	7	7	5	7	3	4	4	10	144
Hiroshima	14	20	18		10		4	13	10	3	12	6	3	5	6	4	7	9	6	9	6	5	6	7	183
Yamaguchi	4	7	6		6		3	4	5	2		6	3	2	2	1	7	7	3	2	1	1	4	1	77
Tokushima	2	8			4		7	1	2	4	6	3	3	2	2	2	1	2	3		3	4	2	3	64
Kagawa	16	20	10		6		10	22	8	12	13	9	6	9	7	12	11	8	7	8	5	8	8	3	218
Ehime	11	7	7		9		6	5	9	2	5	3	9	4	4	4	2	3	3	4	3	6	4	5	115
Kochi	6	2	4		3		3	2	4	2	2	2	2	1	4	3	1		1	1	3	1		3	50
Fukuoka	34	36	34		22		32	30	29	23	34	25	29	21	20	17	24	21	14	19	19	25	11	18	537
Saga	3	3	1		2		4		1	1		1	2	1	3	3	3	1	1	2	1	5	2	3	43
Nagasaki	5	3	6		5		3	9	1		3	1	1	4	2	6		3	5		3	1	3	1	65
Kumamoto	9	10	12		6		4	3	3	2	8	4	10	6	5	2	6	2	2	4	4	3	9	8	122
Oita	4	4	5		3		4	5	3	3	3	4	2	2	2	3	1	2	4	3		2			59
Miyazaki	3	3	2		6		1		3	1	4	4	4	3	4	1	2	5	2	1		6	1		56
Kagoshima	4	5	4				2	1	2	5	3	1		2	3	1	2	2		4	2	2	1	2	48
Okinawa	5	2	5		9		4	1	7	2		5	2	1	4	1	3	1	1	1		1		2	57
total	820	821	765	735	640	666	593	600	579	550	565	485	466	433	418	426	368	368	360	381	363	374	370	375	12,521

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

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

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

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

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Fatal accidents in printing service in Japan in 1999-2022

printing service industry Code No.010701

Type of fatal accidents in printing service in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height			1	1	1				2	1	1						1			1				1	10
falling to same level									1						1			1							3
crash			1																						1
struck by flying or falling object								1												1					2
collapse																									
crashed by		1															1								2
caught in/between	2		1	1		2		1	1		2	1	3		2	1				1				1	19
cut																									
injury to the sole of the foot																									
drown							1						3												4

contact to high/low-temperature																									
contact to harmful substance				1							1														2
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)		2	2	2	1							1						1							9
traffic accident (others)																									
reaction to motion/improper motion																									
others						1	1					1	1			1		1	1		1				8
unclassifiable																									
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Causal agents (large) of fatal accidents in printing service in 1999-2022

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

machine	2	1		1		2		1	1		1	1	2		2	1				1				1	17
crane, conveying machine		2	3	3	2						1	1	1				1	2		1					17
other equipment																									
temporary buildings, establishments			1				1		3	1	1				1		1			1				1	11
substance, material			1	1							1														3
load								1																	1
environment													4												4
others						1	1					1				1		1	1		1				7
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Causal agents (middle) of fatal accidents in printing service in 1999-2022

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

metal manufacturing machine																									
general machine	2	1		1		2		1	1		1	1	2		2	1				1				1	17
mobile silviculture machine																									
crane																									
conveying machine		1	1	1	1						1		1				1	1		1					9
vehicle		1	2	2	1							1						1							8
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments, facilities																									
temporary buildings, establishments			1				1		3	1	1				1		1			1				1	11
hazards, harmful substances				1							1														2

materials			1																						1
load								1																	1
natural environment													4												4
other causal agent						1	1																		2
no causal agent												1				1		1	1		1				5
unclassifiable																									
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Causal agents (small) of fatal accidents in printing service in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									
circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									

chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
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																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine	2			1					1		1	1	2		2	1				1				1	13
industrial robot		1																							1
other general power machines						2		1																	3
felling machine																									
mobile logging																									

machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck		1											1												2
forklift			1	1	1						1						1	1		1					7
railway equipment																									
conveyor																									

loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle		1	1	2	1							1						1							7
railway vehicle																									
other vehicles			1																						1
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									

transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									
human power machine																									
hand tool																									
ladder																									
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage									3	1					1										5
opening																								1	1
roof, beam, haze,																									

crossbeam, principal rafter																									
working platform, boot board											1									1					2
passage																									
building, establishment			1				1										1								3
other temporary buildings, establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance				1							1														2
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									

other materials			1																						1
load								1																	1
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water													4												4
abnormal environment																									
high/cold temperature environment																									
other environments																									
other causal agent						1	1																		2
no causal agent												1				1		1	1		1				5
unclassifiable																									
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Workers age of fatal accidents in printing service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less			1																						1

20-29	1	1	1	1		1			1		1	1								1				1	10
30-39		2	2	1		1	1				2	1	4		1	1		1	1						18
40-49			1					1				1	1		1									1	6
50-59	1			2	2	1	1		1		1		1				2	2		1	1				16
60 years old or more				1				1	2	1			1		1	1				1					9
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Workers' number of workplace of fatal accidents in printing service in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less			1										2					1		1					5
10-29	2		1	1			1	2		1		1	1		1	1	1	1						1	15
30-49		1	1	2		1			3			1	4		1										14
50-99		1	2		1	1	1								1	1			1	1					10
100-299		1		1					1		3	1					1	1			1			1	11
300 workers or more				1	1	1					1									1					5
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Month of fatal accidents in printing service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January			3	1			1					1													6

February							1	1				1				1		1							5
March	1	1	1		1	1			2			1	7								1			1	17
April				1		1			1									1						1	5
May		1		1					1								1	1							5
June		1									1					1									3
July			1		1					1										1					4
August															1										1
September								1									1		1						3
October						1					2				1					1					5
November				1																1					2
December	1			1							1				1										4
total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

Prefecture of fatal accidents in printing service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido		1																			1				2
Aomori																									
Iwate													1												1
Miyagi													3												3
Akita							1																		1

Yamagata																									
Fukushima			1																	1					2
Ibaraki	1			1																					2
Tochigi																									
Gunma																									
Saitama		1	1				1	1							2										6
Chiba				1																					1
Tokyo				1					3																4
Kanagawa										1															1
Niigata						1																			1
Toyama						1																			1
Ishikawa																									
Fukui					1											1									2
Yamanashi												1													1
Nagano													1												1
Gifu																									
Shizuoka			1								1		1												3
Aichi				1				1							1					1					4
Mie											1														1
Shiga											1						1								2
Kyoto					1							1													2

Osaka	1	1	1			1			1			1				1								2	9
Hyogo			1	1									1												3
Nara											1														1
Wakayama																				1					1
Tottori																									
Shimane																									
Okayama																	1								1
Hiroshima																									
Yamaguchi																		1							1
Tokushima																		1							1
Kagawa																			1						1
Ehime																									
Kochi																									
Fukuoka																		1							1
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									

total	2	3	5	5	2	3	2	2	4	1	4	3	7		3	2	2	3	1	3	1			2	60

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

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