ISO 19434:2017-10 (E)

Mining - Classification of mine accidents

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5 Classification of mine accidents based on their origin or cause: Code 1xx 6
5.1 Chemical-based accidents: Code 10x, unspecified is 100 6
5.1.1 Explosives and accessories: Code 101 6
5.1.2 Chemical compounds: Code 102 6
5.1.3 Fire: Code 103 6
5.1.4 Chemical apparatus and material: Code 104 6
5.2 Electrical-based accidents: Code 110 6
5.3 Environmental-based accidents: Code 12x, unspecified is 120 6
5.3.1 Working environment: Code 121 6
5.3.2 Natural environment: Code 122 7
5.4 Geo-chemical-based accidents: Code 130 7
5.5 Geo-mechanical-based accidents: Code 140 7
5.6 Equipment-based accidents: Code 15x, unspecified is 150 7
5.6.1 Hand tools: Code 151 7
5.6.2 Non-powered haulage: Code 152 7
5.6.3 Powered haulage: Code 153 7
5.6.4 Hoisting: Code 154 7
5.6.5 Machinery: Code 155 8
5.7 Mechanical-based accidents: Code 160 8
5.8 Human errors-based accidents [4] 8
5.8.1 General 8
5.8.2 Person-based errors: Code 17x, unspecified is 170 [4] 8
5.8.3 Situation-based errors: Code 18x, unspecified is 180 [4] 9
5.8.4 System-based errors: Code 19x, unspecified is 190 [4] 9

6 Classification of mine accidents based on type of accident: Code 2xx, unclassifiable is 200 [1] 10
6.1 Contact with objects and equipment: Codes 210 (for unspecified), 22x, 23x, 24x or 25x [1] 10
6.1.1 Struck against object: Code 22x, unspecified is 220 10
6.1.2 Struck by object: Code 23x, unspecified is 230 10
6.1.3 Caught in or compressed by equipment or objects: Code 24x, unspecified is 240 11
6.1.4 Caught in or crushed in collapsing materials: code 25x, unspecified is 250 12
6.2 Falls: Code 26x, unspecified is 260 [1] 12
6.2.1 Fall of person to lower level: Code 261 12

6.2.2 Falls of persons on the same level: Code 262 12
6.2.3 Fall of material or structures: Code 263 12
6.3 Bodily reaction and exertion: Code 27x, unspecified is 270 [1] 13
6.3.1 Over-exertion in lifting objects: Code 271 13
6.3.2 Over-exertion in pushing or pulling objects: Code 272 13
6.3.3 Over-exertion in handling or throwing objects: Code 273 13
6.3.4 Wrong movements: Code 274 13
6.4 Exposure to harmful substances or environments: Code 28x, unspecified is 280 [1] 13
6.4.1 Contact with electric current: Code 281 13
6.4.2 Contact or exposure to temperature extremes: Code 282 13
6.4.3 Exposure to noise: Code 283 13
6.4.4 Exposure to radiation: Code 284 13
6.4.5 Oxygen deficiency: Code 285 13
6.4.6 Contact with chemicals: Code 286 14
6.5 Fires and explosions: Code 29x, unspecified is 290 [1] 14
6.5.1 Fires- unintended or uncontrolled: Code 291 14
6.5.2 Explosion: Code 292 14
6.6 Unclassifiable: Code 200 [1] 14

7 Classification of mine accidents based on their consequences: Codes 3xx, 4xx and 5xx . 14
7.1 Based on the degree of disability: Code 3xx, unspecified is 300 [3] 14
7.1.1 Resulting in death or disability, Code 31x 14
7.1.2 Without disability: Code 32x, unspecified is 320 15
7.2 Based on the nature of injury: Code 4xx, unspecified is 400 [5] 15
7.2.1 Fractures: Code 401 15
7.2.2 Dislocations: Code 402 15
7.2.3 Sprains and strains: Code 403 15
7.2.4 Concussions and other internal injuries: Code 404 15
7.2.5 Amputations and enucleations: Code 405 15
7.2.6 Other wounds: Code 406 15
7.2.7 Superficial injuries: Code 407 16
7.2.8 Contusions and crushings: Code 408 16
7.2.9 Burns: Code 409 16
7.2.10 Acute poisonings: Code 410 16
7.2.11 Effects of weather, exposure and related conditions: Code 411 16
7.2.12 Asphyxia: Code 412 16
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