

Council Directive of 30 November 1989 on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace (third individual directive within the meaning of Article 16 (1) of Directive 89/391/EEC) (89/656/EEC)

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[^{F1} ANNEX I

RISKS IN RELATION TO THE BODY PARTS TO BE PROTECTED BY PPE (*)

() This list of risks/parts of the body cannot be expected to be exhaustive. The risk assessment will determine the need to provide a PPE and its characteristics according to the provisions of this Directive.*

Textual Amendments

F1 Substituted by Commission Directive 2019/1832 of 24 October 2019 amending Annexes I, II and III to Council Directive 89/656/EEC as regards purely technical adjustments.

| | | RISKS | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------------------|------------|-----|-----|-------|---------|------------------|---------------------------------------|--------------------|--------------------|------------------|----------|------------|----------------------------------|-------------------|------------------------|--------------------|-----------------------------------|------------------------|-----------------------------|----------------|--|--|--|--|--|
| | | PHYSICAL | | | | | | CHEMICAL (including nanomaterial) (*) | | | | | | BIOLOGICAL AGENTS (contained in) | | | | OTHER RISKS | | | | | | | | |
| | | MECHANICAL | | | NOISE | THERMAL | | ELECTRICAL | | RADIATION | | AEROSOLS | | LIQUIDS | GASES AND VAPOURS | AEROSOLS | LIQUIDS | MATERIALS, PERSONS, ANIMALS, ETC. | DROWNING | OXYGEN deficiency | NON-VISIBILITY | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | Heat and/or fire | Cold | Electric shock (8) | Static electricity | Non-ionizing (9) | Ionizing | Solid (10) | Liquid (11) | Immersion | Splashes, sprays, jets | Solids and liquids | Direct and indirect contact | Splashes, sprays, jets | Direct and indirect contact | | | | | | |
| PARTS OF THE BODY TO BE PROTECTED | Head | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Whole head | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ears | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Eyes | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Face | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Respiratory system | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hands | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Arms (parts) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Foot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Legs (parts) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Skin | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Trunk/Abdomen | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Partial body | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Whole body | | | | | | | | | | | | | | | | | | | | | | | | | |

(1) Impact caused by falling or ejected objects, collision with an obstacle and high-pressure jets
 (2) Falls due to slipping
 (3) Falls from a height
 (4) Vibration
 (5) Static compression of parts of the body
 (6) Mechanical injuries (abrasion, perforation, cuts, bites, wounds or stabs)
 (7) Entanglement and trapping
 (8) Direct or indirect contact
 (9) Including sunlight (other than direct observation)
 (10) Dusts, fumes, smokes and fibres
 (11) Mists and fogs
 (*) See Recommendation 2011/696/EU on the definition of nanomaterial

[^{F1} ANNEX II

NON-EXHAUSTIVE LIST OF TYPES OF PERSONAL PROTECTIVE EQUIPMENT WITH REGARD TO THE RISKS THEY PROVIDE PROTECTION AGAINST
Equipment for HEAD PROTECTION

- Helmets and/or caps/balaclavas/headgears against:
 - Impacts caused by falling or ejected object
 - Collision with an obstacle
 - Mechanical risks (perforation, abrasion)
 - Static compression (lateral crushing)
 - Thermal risks (fire, heat, cold, hot solids including molten metals)
 - Electric shock and live working
 - Chemical risks
 - Non-ionizing radiation (UV, IR, solar or welding radiation)

— Hairnets against risk of entanglement

Equipment for HEARING PROTECTION

- Earmuffs (including e.g. earmuffs attached to a helmet, active noise reduction earmuffs, earmuffs with electrical audio input)
- Earplugs (including e.g. level-dependent earplugs, earplugs adapted to the individual)

Equipment for EYE AND FACE PROTECTION

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- Spectacles, goggles and face shields (prescription lenses where appropriate) against:
 - Mechanical risks
 - Thermal risks
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
 - Ionizing radiation
 - Solid aerosols and liquids of chemical and biological agents

Equipment for RESPIRATORY PROTECTION

- Filtering devices against:
 - Particles
 - Gases
 - Particles and gases
 - Solid and/or liquid aerosols
- Insulating devices, including with an air supply
- Self-rescue devices
- Diving equipment

Equipment for HAND AND ARM PROTECTION

- Gloves (including mittens and arm protection) against:
 - Mechanical risks
 - Thermal risks (heat, flame and cold)
 - Electric shock and live working (antistatic, conductive, insulating)
 - Chemical risks
 - Biological agents
 - Ionizing radiation and radioactive contamination
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
 - Vibration risks
- Finger stalls

Equipment for FOOT AND LEG PROTECTION and anti-slip protection

- Footwear (e.g. shoes, including in certain circumstances clogs, boots that may have steel toe-caps) to protect against:
 - Mechanical risks
 - Slipping risks
 - Thermal risks (heat, flame and cold)
 - Electric shock and live working (antistatic, conductive, insulating)
 - Chemicals risks
 - Vibration risks
 - Biological risks
- Removable instep protectors against mechanical risks
- Kneepads against mechanical risks
- Gaiters against mechanical, thermal and chemical risks and biological agents
- Accessories (e.g. spikes, crampons)

SKIN PROTECTION — BARRIER CREAMS⁽¹⁾

- There could be barrier creams to protect against:
 - Non ionizing radiation (UV, IR, solar or welding radiation)
 - Ionizing radiation
 - Chemicals
 - Biological agents

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- Thermal risks (heat, flame and cold)

Equipment for BODY PROTECTION/OTHER SKIN PROTECTION

- Personal protective equipment for protection against falls from a height, such as retractable type fall arresters, full body harnesses, sit harnesses, belts for work positioning and restraint and work positioning lanyards, energy absorbers, guided-type fall arresters including an anchor line, rope adjustment devices, anchor devices that are not designed to be permanently fixed and that do not require fastening works before use, connectors, lanyards, rescue harness
- Protective clothing, including whole body (i.e. suits, overalls) protection and partial body (i.e. gaiters, trousers, jackets, waistcoats, aprons, kneepads, hoods, balaclavas) protection against:
 - Mechanical risks
 - Thermal risks (heat, flame and cold)
 - Chemicals
 - Biological agents
 - Ionizing radiation and radioactive contamination
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
 - Electric shock and live working (antistatic, conductive, insulating)
 - Entanglement and trapping
- Lifejackets for prevention of drowning and buoyancy aids
- PPE for signalling the user's presence visually]

[^{F1}ANNEX III

NON-EXHAUSTIVE LIST OF ACTIVITIES AND SECTORS OF ACTIVITY WHICH MAY REQUIRE THE PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (*)

() The risk assessment will determine the need to provide a PPE and its characteristics according to the provisions of this Directive*

I. PHYSICAL RISKS

| Risks | Body part affected Type of PPE | Examples of activities where the use of the corresponding type of PPE may be necessary (*) | Industry and Sectors |
|---|---|---|--|
| PHYSICAL — MECHANICAL | | | |
| Impact caused by falling or ejected objects, collision with an obstacle and high-pressure jets | Cranium Protective helmet | — Work on, underneath or in the vicinity of scaffolding and elevated workplaces | — Building construction — Civil engineering construction — Machinery manufacturing, installation and maintenance |
| | | — Carcase Work and road work | — Shipbuilding |

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| | | | |
|---|--|---|---|
| — | Formwork's erection and stripping | — | Mining works |
| — | Scaffolding's assembly and installation | — | Energy production |
| — | Assembly and installation works | — | Infrastructure construction and maintenance |
| — | Demolitions | — | Iron and Steel industry |
| — | Blasting works | — | Slaughterhouses |
| — | Work in pits, trenches, shafts and tunnels | — | Railway shunting work |
| — | Work in the vicinity of lifts, lifting gear, cranes, and conveyors | — | Harbours, transport and logistics |
| — | Works in underground workings, quarries, open diggings | — | Forest Industry |
| — | Work with industrial furnaces, containers, machinery, silos, bunkers and pipelines | | |
| — | Slaughtering and Cutting line at slaughterhouses | | |
| — | Load handling or Transport and storage | | |
| — | Forest work | | |
| — | Work on steel bridges, steel building | | |

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| | | | |
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| | — | construction, steel hydraulic structures, blast furnaces, steel works and rolling mills, large containers, large pipelines, boiler plants and power stations | |
| | — | Earth and rock works | |
| | — | Work with bolt-driving tools | |
| | — | Work with blast furnaces, direct reduction plants, steelworks, rolling mills, metalworks, forging, drop forging and casting | |
| | — | Work involving travelling on bicycles and mechanically propelled bikes | |
| Eyes and/or face Spectacles, goggles and face shields | — | Welding, grinding and separating work | — Building construction |
| | — | Manual hammering | — Civil engineering construction |
| | — | Caulking and chiselling | — Machinery manufacturing, installation and maintenance |
| | — | | — Shipbuilding |

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| | | | | |
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| | — | Rock working and processing | — | Mining works |
| | — | Work with bolt-driving tools | — | Energy production |
| | — | Work on stock removing machines for small chippings | — | Infrastructure construction and maintenance |
| | — | Drop forging | — | Iron and Steel industries |
| | — | The removal and breaking up of fragments | — | Metal and Wood industries |
| | — | Spraying of abrasive substances | — | Stone carving |
| | — | Use of brush cutter or chainsaw | — | Gardening |
| | — | Dental and surgical procedures | — | Healthcare |
| | — | | — | Forestry |
| Foot and leg (parts) | — | Carcase | — | Building construction |
| Footwear (shoes/boots, etc.) with safety or protective toecap | — | Work and road work | — | Civil engineering construction |
| Footwear with metatarsal protection | — | Erection and stripping of formwork | — | Machinery manufacturing, installation and maintenance |
| | — | Scaffolding's assembly and installation | — | Shipbuilding |
| | — | Demolitions | — | Mining works |
| | — | Blasting works | — | Energy production |
| | — | Working and processing of rock | — | Infrastructure construction and maintenance |
| | — | Slaughtering and Cutting line works | — | Iron and Steel industry |
| | — | Transport and storage | — | Slaughterhouses |

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| | — | Work with moulds in the ceramics industry | — | Logistic Companies |
| | | | — | Manufacturing Industry |
| | — | Work with frozen meat blocks and preserved foods | — | Glass Industry |
| | | | — | Forest Industry |
| | | packaging | | |
| | — | Flat glass products and container glassware manufacture, working and processing | | |
| | | Conversion and maintenance work | | |
| | — | Forest works | | |
| | — | Work with concrete and prefabricated parts involving formwork erection and stripping | | |
| | | Work in contractors' yards and warehouses | | |
| | — | Roof work | | |
| | — | Work on steel bridges, steel building construction, masts, towers, lifts, steel hydraulic structures, blast furnaces, steelworks and rolling | | |

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| | | | | |
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| | | — | mills, large containers, large pipelines, cranes, boiler plants and power stations Furnace construction, heating and ventilation installation and metal assembly work Work with blast furnaces, direct reduction plants, steelworks, rolling mills, metal works, forging, drop forging, hot pressing and drawing plants Work in quarries and open diggings, coal stock removal Work with moulds in the ceramics industry Lining of kilns in the ceramics industry Railway shunting work | |
| Falls due to slipping | Foot Slip-resistant footwear | — | Works on slippery surfaces | — Building construction |

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| | | — | Works on humidity environments | — | Civil engineering construction Shipbuilding Slaughterhouse Cleaning Food industries Gardening Fishing industry |
| Falls from a height | Whole body PPE designed to prevent or arrest falls from height | — | Work on scaffolding | — | Building construction |
| | | — | Assembly of prefabricated parts | — | Civil engineering construction Shipbuilding |
| | | — | Works on masts | — | Infrastructure maintenance |
| | | — | Roof work | | |
| | | — | Work on vertical or slope surfaces | | |
| | | — | Work in high crane cabs | | |
| | | — | Work in high cabs of warehouse stacking and retrieval equipment | | |
| | | — | Work in high sections of drilling towers | | |
| | | — | Work in shafts and sewers | | |
| Vibration | Hands Protective Gloves | — | Works with hand-guided tools | — | Manufacturing industries Building work Civil Engineering work |
| Static compression of parts of the body | Knee (leg parts) Kneepads | — | Installation of blocks, tiles and | — | Building construction |

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| | | | pavers on the floor | — | Civil engineering construction | |
| | Footwear with toecaps | — | Demolitions | — | Building construction | |
| | | — | Load handling | — | Civil engineering construction | |
| | | | | — | Transport and storage | |
| | | | | — | Maintenance | |
| | | | | | | |
| Mechanical injuries (abrasion, perforation, cuts, bites, wounds or stabs) | Eyes and/or face Spectacles, goggles, face shields | — | Works with hand-guided tools | — | Building construction | |
| | | — | Welding and forging | — | Civil engineering construction | |
| | | — | Grinding and separating work | — | Shipbuilding | |
| | | — | Chiselling | — | Mining works | |
| | | — | Rock working and processing | — | Energy production | |
| | | — | Work on stock removing machines for small chippings | — | Infrastructure maintenance | |
| | | — | Drop forging | — | Iron and Steel industries | |
| | | — | The removal and breaking up of fragments | — | Metal and Wood industries | |
| | | — | Spraying of abrasive substances | — | Stone carving | |
| | | — | Use of brush cutter or chainsaw | — | Gardening | |
| | | | | | — | Forestry |
| | | | | | | |
| | | | Hands Mechanical protective gloves | — | Works with steel framework | — |
| | — | Handling of sharp-edged objects, other than machines | | — | Civil engineering construction | |
| | | | | — | Shipbuilding | |
| | | | | — | Infrastructure maintenance | |

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| | | <p>where there is a danger of the gloves being caught</p> <p>— Regular cutting using a hand knife for production and slaughtering</p> <p>— Changing the knives of cutting machines</p> <p>— Forest works</p> <p>— Gardening work</p> | <p>— Manufacturing industries</p> <p>— Food industry</p> <p>— Slaughter</p> <p>— Forest industry</p> |
| | Forearms Arm protection | <p>— Boning and cutting</p> | <p>— Food industry</p> <p>— Slaughter</p> |
| | Trunk/Abdomen/Leg Protective apron, gaiters Penetration resistance trousers (cut-resistant trousers) | <p>— Regular cutting using a hand knife for production and slaughtering</p> <p>— Forest works</p> | <p>— Food industry</p> <p>— Slaughter</p> <p>— Forest industry</p> |
| | Foot Penetration resistance footwear | <p>— Carcase works and road works</p> <p>— Demolition</p> <p>— Formwork's erection and stripping</p> <p>— Forest works</p> | <p>— Building construction</p> <p>— Civil engineering construction</p> <p>— Shipbuilding</p> <p>— Mining works</p> <p>— Forest industry</p> |
| Entanglement and trapping | Whole body Protective clothing for use where there is a risk of entanglement with moving parts | <p>— Entangle oneself in parts of machines</p> | <p>— Machine building</p> <p>— Manufacture of heavy-duty machines</p> |

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| | | — | Get caught in parts of machines | — | Engineering |
| | | — | Get caught with garment in parts of machines | — | Construction |
| | | — | Get swept away | — | Agriculture |
| PHYSICAL — NOISE | | | | | |
| Noise | Ears Hearing protectors | — | Work with metal presses | — | Metal Industry |
| | | — | Work with pneumatic drills | — | Manufacturing Industry |
| | | — | The work of ground staff at airports | — | Building construction |
| | | — | Works with power tools | — | Civil engineering construction |
| | | — | Blasting works | — | Aeronautical industry |
| | | — | Pile-driving work | — | Mining works |
| | | — | Wood and textile working | | |
| PHYSICAL — THERMAL | | | | | |
| Heat and/or fire | Face/Whole head Welding headshields, helmets/caps against heat or fire, protective hoods against heat and/or flame | — | Work in presence of high temperatures, radiating heat or fire | — | Iron and Steel Industry |
| | | — | Work with or in the vicinity of molten substances | — | Metal Industry |
| | | — | Work with welding plastics guns | — | Maintenance services |
| | | — | | — | Manufacturing Industry |
| | Trunk/abdomen/legs Protective apron, gaiters | — | Welding and forging | — | Iron and Steel Industry |
| | | — | Casting | — | Metal Industry |

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| | | | — | Maintenance services |
| | | | — | Manufacturing industry |
| | Hand Protective gloves against heat and/or flame | — | Welding and forging | — |
| | | — | Work in presence of high temperatures, radiating heat or fire | — |
| | | — | Work with or in the vicinity of molten substances | — |
| | | | | — |
| | | | | Iron and Steel Industry |
| | | | | Metal Industry |
| | | | | Maintenance services |
| | | | | Manufacturing industry |
| | Forearms Sleeves | — | Welding and forging | — |
| | | — | Work with or in the vicinity of molten substances | — |
| | | | | — |
| | | | | Iron and Steel Industry |
| | | | | Metal Industry |
| | | | | Maintenance services |
| | | | | Manufacturing industry |
| | Foot Footwear against heat and/or flame | — | Work with or in the vicinity of molten substances | — |
| | | | | — |
| | | | | Iron and Steel Industry |
| | | | | Metal Industry |
| | | | | Maintenance services |
| | | | | Manufacturing industry |
| | Whole/partial body Protective clothing against heat and/or flame | — | Work in presence of high temperatures, radiating heat or fire | — |
| | | | | — |
| | | | | Iron and Steel Industry |
| | | | | Metal Industry |
| | | | | Forest Industry |
| Cold | Hand Protective gloves against cold | — | Work in the open air in extreme cold conditions | — |
| | Foot Footwear against cold | — | Work in deep-freeze rooms | — |
| | | | | — |
| | | | | Building construction |
| | | | | Civil engineering construction |
| | | | | Shipbuilding |
| | | | | Mining works |

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| | | | | | |
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| | | — | Work with cryogenic liquids | — | Food Industry Agriculture and fisheries sector |
| | Whole/partial body including head Protective clothing against cold | — | Work in the open air in cold weather conditions | — | Building construction Civil engineering construction |
| | | — | Work in deep-freeze rooms | — | Shipbuilding Mining works Food Industry Agriculture and fisheries sector |
| | | | | — | Transport and storage |
| PHYSICAL — ELECTRICAL | | | | | |
| Electric shock (direct or indirect contact) | Whole head Electrically insulating helmets Hands Electrically insulating gloves Foot Electrically insulating footwear Whole body/Hands/ Foot Conductive PPE intended to be worn by skilled persons during live working at a nominal power system voltage up to 800 kV AC and 600 kV DC | — | Live working or close to live parts under electrical tension | — | Energy production Transmission and distribution of electrical energy |
| | | — | Work on electrical system | — | Industrial facilities maintenance Building construction Civil engineering construction |
| Static electricity | Hands Antistatic gloves Foot Antistatic/conductive footwear Whole body Antistatic clothing | — | Handling plastic and rubber | — | Manufacturing industry Feed industry |
| | | — | Pouring, collecting or loading into a container | — | Bagging and packing plants |
| | | — | Work near to highly | — | Production, storage or |

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| | | — | charged elements such as conveyor belts Handling explosives | — | transport of explosives |
| PHYSICAL — RADIATION | | | | | |
| Non-ionizing radiation, including sunlight (other than direct observation) | Head Caps and helmets | — | Work in open air | — | Fishing and agriculture Building construction Civil engineering construction |
| | Eyes Protective spectacles, goggles and face shields | — | Work with radiant heat | — | Iron and Steel Industries |
| | | — | Furnace operations | — | Manufacturing industry |
| | | — | Work with laser | — | Fishing and agriculture |
| | | — | Work in open air | | |
| | | — | Welding and gas cutting | | |
| | | — | Glass blowing | | |
| | | — | Germicidal lamps | | |
| | Whole body (skin) PPE against Natural and artificial UV | — | Work in the open air | — | Building construction |
| | | — | Electrical welding | — | Civil engineering construction |
| | | — | Germicidal lamps | — | Shipbuilding |
| | | — | Xenon lamps | — | Mining works |
| | | | | — | Energy production |
| | | | | — | Infrastructure maintenance |
| | | | | — | Fishing and agriculture |
| | | | | — | Forest industry |
| | | | | — | Gardening |
| | | | | — | Food industry |
| | | | | — | Plastic industry |

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| | | | | — | Printing industry |
| Ionizing radiation | Eyes Protective spectacles/goggles against ionizing radiation | — | Operating in X-ray facilities | — | Healthcare |
| | Hands Protective gloves against ionizing radiation | — | Operating in the area of medical radio diagnosis | — | Veterinary care |
| | | — | Work with radioactive products | — | Radioactive waste plant |
| | | — | | — | Energy production |
| | Trunk/abdomen/partial body Protective apron against x-rays /Coat/Vest/Skirt against x-rays | — | Operating in X-ray facilities | — | Healthcare |
| | — | Operating in the area of medical radio diagnosis | — | Veterinary care | |
| | | | | — | Dental care |
| | | | | — | Urology |
| | | | | — | Surgery |
| | | | | — | Interventional radiology |
| | | | | — | Laboratories |
| Head Headwear & Caps PPE for protection against e.g. development of brain tumours | — | Medical X-ray work places and facilities | — | Healthcare | |
| | | | | — | Veterinary care |
| | | | | — | Dental care |
| | | | | — | Urology |
| | | | | — | Surgery |
| | | | | — | Interventional radiology |
| Partial body PPE for thyroid protection | — | Operating in X-ray facilities | — | Healthcare | |
| PPE for gonads protection | — | Operating in the area of medical radio diagnosis | — | Veterinary care | |
| Whole body Protective clothing against ionizing radiation | — | Operating in the area of medical radio diagnosis | — | Energy production | |
| | — | Work with radioactive products | — | Radioactive waste plant | |

II. CHEMICAL RISKS (including nanomaterial)

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| Risks | Body part affected Type of PPE | Examples of activities where the use of the corresponding type of PPE may be necessary (*) | Industry and Sectors |
|--|--|---|--|
| CHEMICAL — AEROSOLS | | | |
| Solid (dusts, fumes, smokes, fibres, and nano-material) | Respiratory system Respiratory protective devices against particles | — Demolition — Blasting works — Sanding and Polishing of surfaces — Work in presence of asbestos — Use of materials consisting of/ containing nanoparticles — Welding — Chimney sweeper — Work on the lining of furnaces and ladles where there may be dust — Work in the vicinity of blast furnace taps where there may be heavy metal fumes — Work in the vicinity of the blast furnace charge | — Building construction — Civil engineering construction — Shipbuilding — Mining works — Iron and Steel industries — Metal and Wood industries — Automotive industry — Stone carving — Pharmaceuticals industry — Healthcare services — Preparation of cytostatics |
| | Hands Chemical Protective gloves and barrier cream as an additional/ accessory protection | — Work in presence of asbestos — Use of materials consisting of/ | — Building construction — Civil engineering construction — Shipbuilding |

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| | | | | | |
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| | | | containing nanoparticles | — | Industrial facilities maintenance |
| | Whole body Protective clothing against solid particles | — — — — — — | Demolition Work in presence of asbestos Use of materials consisting of/ containing nanoparticles Chimney sweeper Preparation of plant protection products | — — — — — — | Building construction Civil engineering construction Shipbuilding Industrial facilities maintenance Agriculture |
| | Eyes Spectacles/goggles and face shields | — — | Woodworking Road work | — — — | Mining industry Metal and wood industry Civil engineering construction |
| Liquid (mists and fogs) | Respiratory system Respiratory protective devices against particles | — — | Surface treatment (e.g. varnishing/painting, abrasive blasting) Surface cleaning | — — — | Metal Industry Manufacturing Industry Automotive sector |
| | Hands Chemical protective gloves | — — — — | Surface treatment Surface cleaning Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive | — — — | Metal Industry Manufacturing industry Automotive sector |

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| | | | | | |
|--|---|----------------------------|--|------------------|--|
| | | | cleaning substances | | |
| | Whole body Chemical protective clothing | — — | Surface treatment Surface cleaning | — — — | Metal Industry Manufacturing industry Automotive sector |
| CHEMICAL — LIQUIDS | | | | | |
| Immersion Splashes, sprays and jets | Hands Chemical protective gloves, | — — — — — — | Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning products Processing of coating materials Tanning Work in hairdressers and beauty salons | — — — — | Textile and clothing industry Cleaning industry Automobile industry Beauty and hairdressing sectors |
| | Forearms Chemical protective sleeves | — | Works with acids and caustic solutions, disinfectants and corrosive cleaning products | — — — | Cleaning industry Chemical industry Cleaning industry Automobile industry |
| | Foot Chemical protective boots | — — | Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning products | — — — | Textile and clothing industry Cleaning industry Automobile industry |

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| | | | | | |
|-------------------------------------|--|---|--|---|--|
| | Whole body Chemical protectiveclothing | — — | Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning products | — — — — | Cleaning Chemical industry Cleaning industry Automobile industry Agriculture |
| CHEMICAL — GASES AND VAPOURS | | | | | |
| Gases and vapours | Respiratory system Respiratory protective devices against gases | — — — — — — — — — — — | Surface treatment (e.g. varnishing/ painting, abrasive blasting) Surface cleaning Work in fermentation and distilling rooms Work inside tanks and digesters Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen Chimney sweeper Disinfectants and corrosive cleaning substances Work in the vicinity of gas | — — — — — — — — — — — | Metal Industry Automotive sector Manufacturing industry Cleaning industry Alcoholic drinks production Wastewater treatment plants Waste treatment plant Chemical Industry Petrochemical industry |

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| | | | |
|-------------------------------------|---|--|-------------------------------|
| | | converters and blast furnace gas pipes | |
| Hands | — | Surface treatment | — Metal Industry |
| Chemical protective gloves | — | Surface cleaning | — Automotive sector |
| | — | Work in fermentation and distilling rooms | — Manufacturing industry |
| | — | Work inside tanks and digesters | — Alcoholic drinks production |
| | — | Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen | — Wastewater treatment plants |
| | — | | — Waste treatment plant |
| | — | | — Chemical Industry |
| | — | | — Petrochemical industry |
| Whole body | — | Surface treatment | — Metal Industry |
| Chemical protective clothing | — | Surface cleaning | — Automotive sector |
| | — | Work in fermentation and distilling rooms | — Manufacturing industry |
| | — | Work inside tanks and digesters | — Alcoholic drinks production |
| | — | Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or | — Wastewater treatment plants |
| | — | | — Waste treatment plant |
| | — | | — Chemical Industry |
| | — | | — Petrochemical industry |

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| | | | |
|---|---|---------------------|--------------------------|
| | | insufficient oxygen | |
| Eyes | — | Spray painting | — Automotive sector |
| Spectacles, goggles and face shields | — | Woodworking | — Manufacturing industry |
| | — | Mining operations | — Mine industry |
| | | | — Chemical Industry |
| | | | — Petrochemical industry |

III. BIOLOGICAL AGENTS

| Risks | Body part affected Type of PPE | Examples of activities where the use of the corresponding type of PPE may be necessary (*) | Industry and Sectors |
|--|--|---|---|
| BIOLOGICAL AGENTS (contained in) - AEROSOLS | | | |
| Solids and liquids | Respiratory system Respiratory protective devices against particles | — Work that involve contact with human body and animal fluids and tissues — Work in presence of biological agent | — Healthcare — Veterinary clinics — Clinical analysis laboratories — Research Laboratories — Retirement homes — Homes assistances — Wastewater treatment plants — Waste treatment plant — Food Industry — Biochemical production |
| | Hands Protective gloves against microorganisms Whole/partial body | — Work that involve contact with human body and animal | — Healthcare — Veterinary clinics — Clinical analysis laboratories |

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| | | | | | |
|---|--|--|---|--|--|
| | Protective clothing against biological agents Eyes and/or face Protective spectacles, goggles and face shields | — | fluids and tissues Work in presence of biological agent | — — — — — — | Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry |
| BIOLOGICAL AGENTS (contained in) - LIQUIDS | | | | | |
| Direct and indirect contact | Hands Protective gloves against microorganisms Whole/partial body Protective clothing against biological agents Eyes and/or face Protective goggles and face shields | — — | Work that involve contact with human body and animal fluids and tissues (bites, stings) Work in presence of biological agent | — — — — — — — — — — — — | Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry Forest industry |
| Splashes, sprays and jets | Hands Protective gloves against microorganisms | — — | Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent | — — — — — — — — | Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants |

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| | | | |
|--|---|---|--|
| | | — | Waste treatment plant |
| | | — | Food Industry |
| Forearms Protective sleeves against microorganisms | — | Work that involve contact with human body and animal fluids and tissues | — Healthcare — Veterinary clinics — Clinical analysis laboratories — Research Laboratories |
| | — | Work in presence of biological agent | — Retirement homes — Homes assistances — Wastewater treatment plants — Waste treatment plant — Food Industry |
| Foot/legs Protective over boots and gaiters | — | Work that involve contact with human body and animal fluids and tissues | — Healthcare — Veterinary clinics — Clinical analysis laboratories — Research Laboratories |
| | — | Work in presence of biological agent | — Retirement homes — Homes assistances — Wastewater treatment plants — Waste treatment plant — Food Industry |
| Whole body Protective clothing against biological agents | — | Work that involve contact with human body and animal | — Healthcare — Veterinary clinics — Clinical analysis laboratories |

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| | | | | | |
|---|--|--------|---|--|--|
| | | — | fluids and tissues Work in presence of biological agent | — — — — — — | Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry |
| BIOLOGICAL AGENTS (contained in) – MATERIALS, PERSONS, ANIMALS, ETC. | | | | | |
| Direct and indirect contact | Hands Protective gloves against microorganisms Whole/partial body Protective clothing against biological agents Eyes and/or face Protective goggles and face shields | — — | Work that involve contact with human body and animal fluids and tissues (bites, stings) Work in presence of biological agent | — — — — — — — — — — | Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry Forest industry |

IV. OTHER RISKS

| Risks | Body part affected Type of PPE | Examples of activities where the use of the corresponding type of PPE may be necessary (*) | Industry and Sectors |
|-----------------------|--|---|---|
| Non-visibility | Whole body PPE for signalling the user's presence visually | — Work in proximity of movement of vehicles | — Building construction — Civil engineering construction |

| | | | | | |
|--------------------------|---|---|--|---|--|
| | | — | Asphalt works and road marking | — | Shipbuilding |
| | | — | Railway works | — | Mining works |
| | | — | Driving means of transport | — | Transport services and passengers transports |
| | | — | Work of ground staff at airport | | |
| Oxygen deficiency | Respiratory system | — | Work in confined spaces | — | Alcoholic drinks production |
| | Insulating respiratory protectives devices | — | Work in fermentation and distilling rooms | — | Civil engineering construction |
| | | — | Work inside tanks and digesters | — | Chemical Industry |
| | | — | Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen | — | Petrochemical industry |
| | | — | Work in shafts, sewers and other underground areas connected with sewage | | |
| | Respiratory system | — | Underwater works | — | Civil engineering construction |
| | Diving equipment | | | | |
| Drowning | Whole body | — | Work on or near water | — | Fishing industry |
| | Life jacket | — | Work in the sea | — | Aeronautical industry |

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| | | | | |
|--|---|---------------------|---|--------------------------------|
| | — | Work in an airplane | — | Building construction |
| | | | — | Civil engineering construction |
| | | | — | Shipbuilding |
| | | | — | Docks and harbours] |

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- (1) [^{F1}In certain circumstances, as a result of the risk assessment, barrier creams could be used together with other PPE with the aim of protecting workers' skin from related risks. Barrier creams are PPE under the scope of Directive 89/656/EEC as this type of equipment can be considered in certain circumstances as 'additional or accessory' within the meaning of Article 2 of Directive 89/656/EEC. However, barrier creams are not PPE according to the definition in Article 3(1) of Regulation (EU) 2016/425.]

Textual Amendments

- F1** Substituted by [Commission Directive 2019/1832 of 24 October 2019 amending Annexes I, II and III to Council Directive 89/656/EEC as regards purely technical adjustments.](#)