

Institute of Chemical Processes of the CAS, v. v. i.

Document type: Methodological instruction for persons professionally competent in the field of risk prevention

Scope:

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Approved:

Date of processing: 25.1.20017

Release Date:

Date of update: 14.2.2018

Date of update: 12.12.2022



**Risk assessment
for the selection and use of protective equipment**

according to Government Regulation No. 390/2021 Coll., on more detailed conditions for the provision of personal protective equipment, washing, cleaning and disinfecting agents...and related regulations:

- Act No. 262/2006 Coll., Labour Code (§101, §104, §106), as amended
 - Act No. 309/2006 Coll. on ensuring other conditions of occupational safety and health, as amended
 - Government Regulation No. 390/2021 Coll., on more detailed conditions for the provision of personal protective equipment, washing, cleaning and disinfecting agents
 - REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment ...
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Profession/activity: **LABORANT, VĚDECKÝ PRACOVNÍK v chemistry laboratoři**

Type of risk			Physical										Chemical					Biological						
			Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Solids	Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
Fall from height to depth		Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration	Heat, fire	Chill		Non-ionizing	Ionizing		Dust, fibres	Smoke, fog	Spraying	Immersion								
Body part at risk			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	
Head	Skull	A																						
	Hearing	B																						
	Air	C																C1						
	Respiratory organs	D																						
	Face	E																						
	The whole head	F																						
Upper limbs	Hands	G																G6	G4		G14			
	Arms (parts)	H																						
Lower limbs	Foot	I		I8																				
	Legs (parts)	J		J2																				
Other body parts	Skin	K																K1						
	Trumpet/belly	L																L2						
	The whole body	M													M2			M2			M16			
	Other	N																						

C1 - protective goggles, L2 - protective apron against water, chemical and biological substances (rubberized, PVC), K1 - protective cream (Indulona)

J2 - light medical footwear - sandal work shoes or perforated, non-slip shoes, I8 - shoes with non-slip soles

G4 - five-finger rubber gloves (cleaning), G6 - gloves against chemical influences, G14 - protective gloves (disposable)

M16 - clothing and parts thereof for the performance of activities of epidemiological importance - trousers, coat, blouse, apron (white twill)

Profession/activity: **LABORANT, VEDECKÝ PRACOVNÍK v biologické laboratoři**

Type of risk		Physical											Chemical						Biological			
		Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Solids	Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould
		Fall from height to depth	Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration		Heat, fire	Chill		Non-ionizing	Ionizing	Dust, fibres	Smoke, fog		Spraying	Immersion				
Body part at risk		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A																				
	Hearing	B																				
	Air	C															C1					
	Respiratory organs	D																				
	Face	E																				
	The whole head	F																				
Upper limbs	Hands	G															G6	G4		G14		
	Arms (parts)	H																				
Lower limbs	Foot	I	I8																			
	Legs (parts)	J	J2																			
Other body parts	Skin	K															K1					
	Trumpet/belly	L															L2					
	The whole body	M												M2			M2			M16		
	Other	N																				

C1 - protective goggles, L2 - protective apron against water, chemical and biological substances (rubberized, PVC), K1 - protective cream (Indulona)

J2 - light medical footwear - sandal work shoes or perforated, non-slip shoes, I8 - shoes with non-slip soles

G4 - five-finger rubber gloves (cleaning), G6 - gloves against chemical influences, G14 - protective gloves against microorganisms (disposable)

M16 - clothing and parts thereof for the performance of activities of epidemiological importance - trousers, coat, blouse, apron (white twill)

Profession/activity: **delivery vehicle driver**

Type of risk			Physical										Chemical						Biological				
			Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Solids	Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould
Fall from height to depth		Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration	Heat, fire	Chill		Non-ionizing	Ionizing		Dust, fibres	Smoke, fog	Spraying	Immersion							
Body part at risk			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A																					
	Hearing	B																					
	Air	C											C3										
	Respiratory organs	D																					
	Face	E																					
	The whole head	F																					
Upper limbs	Hands	G			G1																		
	Arms (parts)	H																					
Lower limbs	Foot	I			I1																		
	Legs (parts)	J																					
Other body parts	Skin	K																					
	Trumpet/belly	L																					
	The whole body	M			M14	M2				M4							M8						
	Other	N																					

C3 - protective goggles against sunlight glare, G1 - five-finger leather gloves I1 - shoes, semi-shoe, non-slip, M2 - workwear twill, M14 - vest made of retroreflective and fluorescent materials, M4 - workwear for protection against bad weather (three-quarter quilted coat, impregnated coat)
 K1 - protective cream (Indulona)

Profession/activity: ÚDRŽBÁŘ BUDOV

Type of risk			Physical										Chemical					Biological					
			Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
Fall from height to depth		Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration	Heat, fire	Chill		Non-ionizing	Ionizing		Dust, fibres	Smoke, fog	Solids	Spraying	Immersion						
Body part at risk			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A									A4												
	Hearing	B																					
	Air	C				E1																	
	Respiratory organs	D																					
	Face	E				E1																	
	The whole head	F																					
Upper limbs	Hands	G			G1					G7	G5												
	Arms (parts)	H																					
Lower limbs	Foot	I				I8																	
	Legs (parts)	J			J3						J6												
Other body parts	Skin	K															K1						
	Trumpet/belly	L																					
	The whole body	M				M2					M4												
	Other	N																					

A4 - protective headgear (winter cap, earmuff), E1 - face shield, K1 - protective cream (Indulona)

I8 - shoes with non-slip soles (semi-shoes), J6 - leather work shoes, ankle boots, insulated

G1 - five-finger leather gloves, G5 - five-finger winter leather gloves, G7 - gloves protecting against hot surfaces

M2 - twill workwear M4 - workwear for protection against bad weather (three-quarter quilted coat, impregnated coat)

Profession/activity: **ELEKTRIKÁŘ**

Type of risk		Physical											Chemical						Biological				
		Mechanical						Noise	Thermal			Electricity	Radiation		Aerosols		Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
Body part at risk		1.	2.	3.	4.	5.	6.		7.	8.	9.		10.	11.	12.	13.	14.	15.					16.
Head	Skull	A																					
	Hearing	B																					
	Air	C																					
	Respiratory organs	D																					
	Face	E																					
	The whole head	F																					
Upper limbs	Hands	G			G1						G10												
	Arms (parts)	H																					
Lower limbs	Foot	I			I7																		
	Legs (parts)	J		J3							J8												
Other body parts	Skin	K																					
	Trumpet/belly	L																					
	The whole body	M			M2																		
	Other	N																					

J8 - dielectric shoes, J6 - leather work shoes
 G1 - five-finger leather gloves, G10 - dielectric gloves
 M2 - twill workwear

Profession/activity: **SVÁŘEČ ELEKTRICKÝM OBLOUKEM**

Type of risk			Physical										Chemical					Biological					
			Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
Fall from height to depth		Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration	Heat, fire	Chill		Non-ionizing	Ionizing		Dust, fibres	Smoke, fog	Solids	Spraying	Immersion						
Body part at risk			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A				A4				A4													
	Hearing	B																					
	Air	C				C1							C2		C1								
	Respiratory organs	D														D2				D2			
	Face	E				E3				E3			E3										
	The whole head	F																					
Upper limbs	Hands	G			G1					G7													
	Arms (parts)	H								H2													
Lower limbs	Foot	I			I7					I7													
	Legs (parts)	J			J3																		
Other body parts	Skin	K																K1					
	Trumpet/belly	L			L1					L1	L3												
	The whole body	M								M7	M4												
	Other	N																					

A4 - protective headgear, C1 - safety glasses, C2 - radiation protection (welding hood), E3 - welding hood, K1 - protective cream (Indulona)

G1,2 - welding leather gloves with cuff, H2 - welding leather sleeves, I7 - shoes with puncture resistant soles, J3 - shoes with protective safety toe cap, L1 - welding leather protective vest, M7 - welding protective clothing, M4 - clothing protecting against bad weather

Profession/activity: **SVÁŘEČ PLAMENEM**

Type of risk		Physical											Chemical					Biological				
		Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
		Fall from height to depth	Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration		Heat, fire	Chill		Non-ionizing	Ionizing	Dust, fibres	Smoke, fog	Solids	Spraying					Immersion
Body part at risk		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A				A4			A4													
	Hearing	B																				
	Air	C				C1						C2		C1								
	Respiratory organs	D													D2			D2				
	Face	E					E3			E3			E3									
	The whole head	F																				
Upper limbs	Hands	G			G1				G7													
	Arms (parts)	H							H2													
Lower limbs	Foot	I			I7				I7													
	Legs (parts)	J		J3					J13													
Other body parts	Skin	K															K1					
	Trumpet/belly	L			L1				L1	L3												
	The whole body	M			M5				M7													
	Other	N																				

A4 - protective headgear, C1 - protective goggles, C2 - radiation protection (welding goggles), K1 - protective cream (Indulona)

G1,2 - welding leather gloves with cuff, H2 - welding leather sleeves, I7 - shoes with puncture resistant soles, J3 - shoes with protective safety toe cap, L1 - welding leather protective vest, M7 - welding protective clothing, M4 - clothing protecting against bad weather

Profession/activity: **obraběč kovů**

Type of risk		Physical											Chemical						Biological			
		Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
		Fall from height to depth	Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration		Heat, fire	Chill		Non-ionizing	Ionizing	Dust, fibres	Smoke, fog	Solids	Spraying					Immersion
Body part at risk		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A																				
	Hearing	B						B2														
	Air	C				E1																
	Respiratory organs	D																				
	Face	E				E1																
	The whole head	F																				
Upper limbs	Hands	G			G1																	
	Arms (parts)	H																				
Lower limbs	Foot	I			I8																	
	Legs (parts)	J		J3																		
Other body parts	Skin	K													K1							
	Trumpet/belly	L																				
	The whole body	M			M2				M4													
	Other	N																				

E1 - face shield, K1 - protective cream (Indulona), B2 - earplugs
 I8 - shoes with non-slip soles (semi-shoes) J3 - leather work shoes
 G1 - five-finger leather gloves, M2 - twill workwear

Profession/activity: **UKLÍZEČKA**

Type of risk			Physical										Chemical					Biological			
			Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Solids	Liquids		Gases, vapours	Viruses, bacteria
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.		12.	13.	14.	15.		16.	17.		
Head	Skull	A																			
	Hearing	B																			
	Air	C														C1					
	Respiratory organs	D																			
	Face	E																			
	The whole head	F																			
Upper limbs	Hands	G														G6	G4		G14		
	Arms (parts)	H																			
Lower limbs	Foot	I		I8																	
	Legs (parts)	J		J2																	
Other body parts	Skin	K														K1					
	Trumpet/belly	L														L2					
	The whole body	M							M4					M2		M2			M16		
	Other	N																			

C1 - protective goggles, L2 - protective apron against water, chemical and biological substances (rubberized, PVC), K1 - protective cream (Indulona)

J2 - light medical footwear - sandal work shoes or perforated, non-slip shoes, I8 - shoes with non-slip soles

G4 - five-finger rubber gloves (cleaning), G6 - gloves against chemical influences, G14 - protective gloves against microorganisms (disposable)

M16 - clothing and parts thereof for the performance of activities of epidemiological importance - trousers, coat, blouse, apron (white twill)

M4 - workwear for protection against bad weather (three-quarter quilted coat, impregnated coat)

Profession/activity: **LABORANT - Laserové pracoviště**

Type of risk			Physical										Chemical					Biological					
			Mechanical						Noise	Thermal		Electricity	Radiation		Aerosols		Liquids		Gases, vapours	Viruses, bacteria	Parasites	Mould	
Fall from height to depth		Falls, on the plane	Blows, impacts	Stabs, cuts, scratches	Fine particles	Vibration	Heat, fire	Chill		Non-ionizing	Ionizing		Dust, fibres	Smoke, fog	Solids	Spraying	Immersion						
Body part at risk			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
Head	Skull	A																					
	Hearing	B																					
	Air	C											C3										
	Respiratory organs	D																					
	Face	E																					
Upper limbs	The whole head	F																					
	Hands	G											G7										
Lower limbs	Arms (parts)	H																					
	Foot	I																					
Other body parts	Legs (parts)	J																					
	Skin	K																					
	Trumpet/belly	L																					
	The whole body	M											M7										
	Other	N																					

C3 - radiation protection goggles