

## **Annex 4 Courses and Hours of Safety and Health Education and Trainings specified for Workplace Monitoring Personnel**

I. Courses and hours of labor safety and health education and trainings specified for Level A workplace chemical-factor monitoring personnel (98 hours)

No.	Course Name	Hour(s)
1	Labor workplace monitoring-related laws and regulations	20 hours
(1)	Occupational Safety and Health Act and Enforcement Rules thereof	3 hours
(2)	Regulations for implementation of labor workplace monitoring	3 hours
(3)	Labor Health and Protection Act	2 hours
(4)	Harmful substance hazard prevention laws and regulations	6 hours
(5)	Hypoxia Prevention Rules	2 hours
(6)	Labor workplace permissible exposure level standard	4 hours
2.	General knowledge of chemical hazards	7 hours
(1)	Industrial processes and chemical factors	4 hours
(2)	General knowledge of chemical hazardous factors	3 hours
3.	Regulations and practicum of hazard communication	4 hours (including 2 hours of regulations, and 2 hours of practicum)
4	Sampling technology	25 hours
(1)	Sampling preparation (including preparation, arrangement and calibration of sampling devices and determination of sampling	6 hours (including 3 hours of

	conditions)	practicum)
(2)	Airborne harmful substance sampling	9 hours (including 4 hours of practicum)
(3)	Airborne harmful particulate sampling	8 hours (including 3 hours of practicum)
(4)	Handling, reservation and transportation of samples	2 hours
5	Introduction to sample analysis	7 hours
(1)	Introduction to common analytical instruments	3 hours
(2)	Application of recommended reference methods for sampling and analysis	4 hours
6	Direct reading instruments and equipment	6 hours (including 2 hours of practicum)
7	Workplace monitoring plan (including sampling strategy)	6 hours
8	Evaluation and handling of monitoring results	5 hours
(1)	Evaluation and handling of monitoring results	3 hours
(2)	Maintenance of sampling devices	2 hours
9	Workplace improvement practicum	6 hours
10	Industrial ventilation	5 hours (including 2 hours of practicum)
11	Personal protective equipment	3 hours (including 1 hour of practicum)

12	Communication with certified analytical laboratory	2 hours
13	Introduction to Workplace Monitoring Management System	2 hours

II. Courses and hours of labor safety and health education and trainings  
specified for Level A workplace physical-factor monitoring  
personnel (79 hours)

No.	Course Name	Hour(s)
1	Occupational safety and health laws and regulations	13 hours
(1)	Occupational Safety and Health Act and Enforcement Rules thereof	3 hours
(2)	Regulations for implementation of labor workplace monitoring	3 hours
(3)	Laws and regulations relevant to workplace physical-factor monitoring (Standards for Labor Work/Rest Time in High-Temperature Workplace, health section of Labor Safety and Health Facility Rules)	3 hours
(4)	Labor Health and Protection Act	2 hours
(5)	Regulations for the Labeling and Hazard Communication of Hazardous Chemicals (including explanation on safety data sheet)	2 hours
2.	Hot environment monitoring	16 hours
(1)	General knowledge of hazard of heat	6 hours (including 2 hours of calculation practicum)
(2)	Hot environment monitoring	6 hours (including 3 hours of practicum)
(3)	Control and improvement of hot environment	4 hours
3.	Noise measurement	42 hours
(1)	General knowledge of sound	6 hours

(2)	Noise measurement	24 hours (including 18 hours of practicum)
(3)	Noise evaluation	6 hours
(4)	Noise control	6 hours
4	Workplace monitoring plan (including sampling strategy)	4 hours
5	Personal protective equipment	4 hours (including 2 hours of practicum)

III. Courses and hours of labor safety and health education and trainings specified for Level B workplace chemical-factor monitoring personnel (61 hours):

No.	Course Name	Hour(s)
1	Occupational Safety and Health Act and Enforcement Rules thereof	2 hours
2.	Regulations for implementation of labor workplace monitoring	2 hours
3.	Labor Health and Protection Act	2 hours
4	Regulations for the Labeling and Hazard Communication of Hazardous Chemicals	2 hours
5	Harmful substance hazard prevention laws and regulations	4 hours
6	Hypoxia Prevention Rules	2 hours
7	General knowledge of chemical factors	3 hours
8	Industrial processes and chemical hazardous factors	3 hours
9	General knowledge and applications of permissible concentration	7 hours (including 4 hours of calculation practicum)
10	Sampling preparation (including preparation, arrangement and calibration of sampling devices and determination of sampling conditions)	6 hours (including 3 hours of practicum)
11	Airborne harmful substance sampling	5 hours (including 3 hours of practicum)
12	Airborne harmful particulate sampling	5 hours (including

		3 hours of practicum)
13	Handling, reservation and transportation of samples	2 hours
14	Introduction to common analytical instruments	2 hours
15	Application of reference standard methods for sampling and analysis	3 hours
16	Direct reading instruments and equipment	3 hours (including 1 hour of practicum)
17	Workplace monitoring plan (including sampling strategy)	3 hours
18	Evaluation and handling of monitoring results	2 hours
19	Communication (or coordination) with certified analytical laboratory	1 hour
20	Introduction to Workplace Monitoring Management System	2 hours

IV. Courses and hours of labor safety and health education and trainings  
specified for Level B workplace physical-factor monitoring  
personnel (56 hours)

No.	Course Name	Hour(s)
1	Occupational Safety and Health Act and Enforcement Rules thereof	2 hours
2.	Regulations for implementation of labor workplace monitoring	2 hours
3.	Labor Health and Protection Act	2 hours
4	Health section of Occupational Safety and Health Facility Rules	2 hours
5	High temperature operation worker recess time standard	2 hours
6	General knowledge of hazard of heat	6 hours (including 2 hours of calculation practicum)
7	Hot environment monitoring	6 hours (including 3 hours of practicum)
8	General knowledge of sound	6 hours
9	Noise measurement	24 hours (including 18 hours of practicum)
10	Personal protective equipment	4 hours (including 2 hours of practicum)



