

Annex 3 Courses and hours of safety and health education and trainings specified for occupational safety and health management personnel

I. Courses and hours of safety and health education and trainings specified for occupational safety management specialist (total 130 hours, including 6 hours of practicum)

1. Laws and regulations relevant to occupational safety and health (58 hours)

- (1) Introduction to Labor Laws 3 hours (including Labor Inspection Law and regulations)
- (2) Occupational Safety and Health Laws 3 hours
- (3) Occupational Safety and Health Installation Rules 6 hours
- (4) Regulations of Occupational Safety and Health Management 3 hours
- (5) Occupational Safety and Health Education and Trainings Rules 2 hours
- (6) Introduction to Labor Health Regulations 2 hours
(Including Labor Health Protection Rules, Female Labor Maternity Health Protection Implementation Measures, and so forth)
- (7) Dangerous Workplace Verification and Inspection Regulations 2 hours
- (8) Construction Safety and Health Installation Standards 3 hours
- (9) High-Pressure Gas Rules for Labor Safety 3 hours
- (10) Safety Inspection Rules for Dangerous Machinery and Equipment 3 hours
- (11) Laws and regulations of harmful substance prevention 6 hours
(including Prevention Rules of Organic Solvent Intoxication, Prevention Standards of Specified Chemical Substance Hazards, Lead Intoxication Prevention Rules, Dust Hazard Prevention Standards, Prevention Rules of Tetra-Alkyl Lead Intoxication, etc.)
- (12) Labeling and Communication Rules of Hazardous Chemical Substances 3 hours
- (13) Hypoxia Prevention Rules 3 hours (including hazards prevention of confined space)
- (14) Labor Workplace Monitoring Implementation Measures and

Permissible Exposure Levels 2 hours

- (15) Dangerous Machinery and Equipment Safety related Regulations
3 hours (Including safety rules for cranes and lifts, safety rules for boilers and pressure vessels, and so forth)
- (16) Machinery and Tools Protection Standards 2 hours
- (17) Hazardous Chemicals Management related Regulations 3 hours
(including Management Measures for Hazardous Chemicals Assessment and Classification, Management Measures for the Registration of New Chemical Substances, Management Measures for the Designation and Operation Permits of Regulated Chemicals, Management Measures for the Designation and Operation of Priority Managed Chemicals)
- (18) Implementation Measures for Process Safety Assessment on a Regular Basis 3 hours
- (19) Laws and regulations relevant to operations with special hazards
2 hours (Standards for Labor Work/Rest Time in High-Temperature Workplace, Protection Standards for Labors in Heavy Physical Operations, Vision Protection Standards for Labors in Precision Operations, Protection Standards for Labors Working at Height, Prevention Standards of Abnormal Pressure Hazards, etc.)
- (20) Machinery and Equipment Safety-Related Management Regulations 3 hours (including Implementation, Supervision, and Management Measures for Mechanical Product Type Certification, Machinery and Equipment Safety Information Reporting and Registration Measures, Supervision and Management Measures for Machinery and Equipment, and so forth)

2. Occupational safety and health planning and management (16 hours)

- (1) Occupational safety and health management system 3 hours
(including risk assessment)
- (2) Composition of occupational safety and health management plan and emergency response plan 5 hours (including 2 hours of practicum)
- (3) Composition of safety and health management regulations and safety and health work guidelines 3 hours (including 1 hour of

practicum in plan)

- (4) Composition of job safety analysis and safety operation standards
5 hours (including 2 hours of practicum)

3. Professional courses (56 hours)

- (1) Business operations risk and safety and health 3 hours (including organizational coordination and communication)
- (2) Risk assessment 2 hours
- (3) Construction operations safety 3 hours
- (4) Electrical safety 3 hours
- (5) Machinery safety protection 3 hours
- (6) Work facility design and lay-out 3 hours
- (7) System safety and run-away reaction control 4 hours
- (8) Loss control and risk management 4 hours
- (9) Prevention of fire and explosion hazards 3 hours
- (10) Introduction to Occupational Hygiene and Occupational Diseases
Prevention 3 hours
- (11) Hazard and assessment management of hazardous chemicals 3
hours
- (12) Personal protective equipment 3 hours
- (13) Ergonomics and musculoskeletal disorders prevention 3 hours
- (14) Labor physiology 2 hours
- (15) Introduction to occupational health management 2 hours
(including tobacco and AIDS prevention and treatment)
- (16) Workplace control engineering 3 hours
- (17) Organization coordination and communication 2 hours
(including professional ethics)
- (18) Investigation, treatment and statistics of occupational accidents
3 hours (including 1 hour of practicum)
- (19) Safety and health measurement instruments 4 hours (2 hours for
safety and health, respectively)

II. Courses and hours of safety and health education and trainings specified for occupational health management specialist (total 130 hours, including 8 hours of practicum)

1. Laws and regulations relevant to safety and health (51 hours)

- (1) Introduction to Labor Laws 3 hours (including Labor Inspection

Law & regulations)

- (2) Occupational Safety and Health Laws 3 hours
- (3) Occupational Safety and Health Installation Rules 6 hours
- (4) Regulations of Occupational Safety and Health Management 3 hours
- (5) Occupational Safety and Health Education and Trainings Rules 2 hours
- (6) Labor Health Regulations 3 hours (including Labor Health Protection Rules, Female Labor Maternity Health Protection Implementation Measures, Conducting Labor Physical and Medical Examination and Accreditation of Health and Inspection Medical Institutions and their Management Measures, and so forth)
- (7) Hazardous Workplace Safety and Management Regulations 3 hours (including Hazardous Workplace Review and Inspection Regulations, Implementation Measures of Process Safety Assessments on a Regular Basis, and so forth)
- (8) Construction Safety and Health Regulations 2 hours
- (9) Prevention Rules of Organic Solvent Intoxication 2 hours
- (10) Lead Intoxication Prevention Rules 2 hours
- (11) Prevention Standards of Specified Chemical Substance Hazards 2 hours
- (12) Dust Hazard Prevention Standards 2 hours
- (13) Permissible Exposure Levels of Workplace Airborne Harmful Substances 2 hours
- (14) Hypoxia Prevention Rules 3 hours (including hazards prevention of confined space)
- (15) Labeling and Communication Rules of Hazardous Chemical Substances 3 hours
- (16) Workplace Monitoring and Implementation Measures 2 hours
- (17) Hazardous Chemicals Management Regulations 3 hours (including Management Measures for Hazardous Chemicals Assessment and Classification, Management Measures for the Registration of New Chemical Substances, Management Measures for the Designation and Operation Permits of Regulated Chemicals,

Management Measures for the Designation and Operation of Priority Managed Chemicals)

- (18) Laws and regulations relevant to operations with special hazards
4 hours (Standards for Labor Work/Rest Time in High-Temperature Workplace, Protection Standards for Labors in Heavy Physical Operations, Vision Protection Standards for Labors in Precision Operations, Protection Standards for Labors Working at Height, Prevention Standards of Abnormal Pressure Hazards, etc.)
- (19) Dangerous Machinery and Equipment Safety Regulations 3 hours (Including labor safety rules for high pressure gas, safety rules for cranes and lifts, safety rules for boilers and pressure vessels, and so forth)

2. Occupational safety and health planning and management (16 hours)

- (1) Occupational safety and health management system 3 hours (including risk assessment)
- (2) Composition of occupational safety and health management plan and emergency response plan 5 hours (including 2 hours of practicum)
- (3) Composition of safety & health management regulations and safety & health work guidelines 3 hours (including 1 hour of practicum in plan)
- (4) Composition of job safety analysis and safety operation standards for 5 hours (including 2 hours of practicum)

3. Professional courses (63 hours)

- (1) Business operations risk and safety & health 3 hours (including organizational coordination and communication)
- (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention 3 hours
- (3) Hazard assessment and management of hazardous chemicals 3 hours
- (4) Health risk assessment 3 hours
- (5) Personal protective equipment 3 hours
- (6) Ergonomics and musculoskeletal disorders prevention 2 hours
- (7) Labor physiology 2 hours

- (8) Workplace health management 3 hours (including tobacco and AIDS prevention and treatment)
- (9) First aid 3 hours
- (10) Introduction to workplace monitoring 3 hours
- (11) Workplace monitoring of physical-factors 3 hours (including monitoring instruments)
- (12) Workplace monitoring of chemical-factors 3 hours (including monitoring instruments)
- (13) Introduction to industrial toxicity 2 hours
- (14) Noises and vibration 3 hours
- (15) Hot and moist environment 3 hours
- (16) Lighting and illumination 2 hours
- (17) Non-ionizing radiation and ionizing radiation 3 hours
- (18) Work environment violence prevention 2 hours (including preventions such as physical violence, language violence, psychological violence, sexual harassment, and so forth)
- (19) Workplace control engineering 3 hours
- (20) Organization coordination and communications 2 hours (including professional ethics)
- (21) Investigation, treatment and statistics of occupational accidents 5 hours (including 3 hours of practicum)
- (22) Ventilation and air exchange 3 hours
- (23) Local ventilation control and design 3 hours

III. Courses and hours of safety and health education and trainings specified for occupational safety and health management staff (total 115 hours, including 6 hours of practicum)

1. Laws and regulations relevant to occupational safety and health (43 hours)

- (1) Introduction to Labor Laws 3 hours (including Labor Inspection Law & regulations)
- (2) Occupational Safety and Health Laws 3 hours
- (3) Occupational Safety and Health Installation Rules 6 hours
- (4) Regulations of Occupational Safety and Health Management 3 hours
- (5) Occupational Safety and Health Education and Trainings Rules 2

hours

- (6) Introduction to Labor Health Regulations 2 hours
(Including Labor Health Protection Rules, Female Labor Maternity Health Protection Implementation Measures, and so forth)
- (7) Hazardous Work Environment Safety Management Regulations 2 hours (including hazardous workplace review and inspection methods, implementation measures of process safety assessment on a regular basis, and so forth)
- (8) Construction Safety and Health Regulations 2 hours
- (9) Labeling and Communication Rules of Hazardous Chemical Substances 2 hours.
- (10) Hypoxia Prevention Rules 3 hours (including hazards prevention of confined space)
- (11) Dangerous Machinery and Equipment Safety Regulations 2 hours (Including labor safety rules for high pressure gas, safety rules for cranes and lifts, safety rules for boilers and pressure vessels, and so forth)
- (12) Machinery and Equipment Safety-Related Management Regulations 3 hours (including Implementation, Supervision, and Management Measures for Mechanical Product Type Certification, Machinery and Equipment Safety Information Reporting and Registration Measures, Supervision and Management Measures for Machinery and Equipment, and so forth)
- (13) Hazardous Chemicals Management Regulations 3 hours (including Management Measures for Hazardous Chemicals Assessment and Classification, Management Measures for the Registration of New Chemical Substances, Management Measures for the Designation and Operation Permits of Regulated Chemicals, Management Measures for the Designation and Operation of Priority Managed Chemicals)
- (14) Laws and regulations of harmful substance prevention 6 hours (including Prevention Rules of Organic Solvent Intoxication, Prevention Standards of Specified Chemical Substance Hazards, Lead Intoxication Prevention Rules, Dust Hazard Prevention

Standards, Prevention Rules of Tetra-Alkyl Lead Intoxication, Labor Workplace Monitoring Regulations, Permissible Exposure Level Standards of Workplace Airborne Harmful Substances, etc.)

(15) Laws and regulations relevant to operations with special hazards
2 hours (Standards for Labor Work/Rest Time in High-Temperature Workplace, Protection Standards for Labors in Heavy Physical Operations, Vision Protection Standards for Labors in Precision Operations, Protection Standards for Labors Working at Height, Prevention Standards of Abnormal Pressure Hazards, etc.)

(16) Workplace Monitoring and Implementation Measures and Permissible Exposure Levels 2 hours

2. Occupational safety and health planning and management (16 hours)

- (1) Occupational safety and health management system 3 hours
(including risk assessment)
- (2) Composition of occupational safety and health management plan and emergency response plan 5 hours (including 2 hours of practicum)
- (3) Composition of safety and health management regulations and safety and health work guidelines 3 hours (including 1 hour of practicum in plan)
- (4) Composition of job safety analysis and safety operation standards for 5 hours (including 2 hours of practicum)

3. Professional courses (56 hours)

- (1) Introduction to Occupational Safety 2 hours
- (2) Electric safety 3 hours
- (3) Machinery safety protection 3 hours
- (4) Prevention of falling accidents 4 hours (including collapse)
- (5) Prevention of fire and explosion 3 hours
- (6) Construction work safety 3 hours
- (7) Management of dangerous machinery and equipment 3 hours
- (8) Materials handling 2 hours
- (9) Risk assessment 2 hours
- (10) Introduction to occupational hygiene and occupational diseases prevention 3 hours

- (11) Personal protective equipment 3 hours
- (12) First aid 3 hours
- (13) Physical hazards prevention 2 hours
- (14) Chemical hazards prevention 2 hours
- (15) Introduction to occupational health management 2 hours
(including tobacco and AIDS prevention and treatment)
- (16) Workplace control engineering 3 hours
- (17) Organization coordination and communications 2 hours
(including professional ethics)
- (18) Investigation, treatment and statistics of occupational accidents
2 hours (including 1 hour of practicum)
- (19) Safety and health monitoring instrument 4 hours (2 hours for
each of safety and health respectively)
- (20) Ventilation and air exchange 3 hours