## 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)

| No.  | Course Name  | Hour(s)  |
|------|--|----------|
| 1    | Occupational safety and health-related regulations   | 58 hours |
| (1)  | Introduction to labor laws (including labor inspection laws and regulations)   | 3 hours  |
| (2)  | Occupational safety and health laws and regulations  | 3 hours  |
| (3)  | Occupational Safety and Health Facility Rules  | 6 hours  |
| (4)  | Regulations of Occupational Safety and Health Management   | 3 hours  |
| (5)  | Occupational Safety and Health Education and Training Rules  | 2 hours  |
| (6)  | Introduction to labor health laws and regulations (including Labor Health Protection Rules, Regulations of the Maternity Health Protection at the Workplace, etc.) | 2 hours  |
| (7)  | Hazardous Work Place Review and Inspection Regulations   | 2 hours  |
| (8)  | Construction Safety and Health Facility Standard   | 3 hours  |
| (9)  | Regulations Governing High Pressure Gas<br>Labor Safety  | 3 hours  |
| (10) | Regulations for Safety Inspection of Dangerous<br>Machines and Equipment   | 3 hours  |
| (11) | Harmful substance hazard prevention laws and regulations (including Prevention Rules of Organic Solvent Intoxication, Prevention                                   | 3 hours  |

|      |   | 1       |
|------|---|---------|
|      | Standards of Specified Chemical Substance       |         |
|      | Hazards, Lead Intoxication Prevention Rules,    |         |
|      | Dust Hazard Prevention Standards, Prevention    |         |
|      | Rules of Tetra-Alkyl Lead Intoxication, etc.)   |         |
| (12) | Regulations for the Labeling and Hazard         | 2.1     |
| (12) | Communication of Hazardous Chemicals            | 3 hours |
| (12) | Hypoxia Prevention Rules (including Hazards     | 2.1     |
| (13) | Prevention Rules of Confined Space)             | 3 hours |
| (14) | Labor Workplace Monitoring Implementation       | 2.1     |
| (14) | Measures and Permissible Exposure Levels        | 2 hours |
|      | Hazardous machinery and equipment               |         |
|      | safety-related regulations (Including           |         |
| (15) | Regulations Governing High Pressure Gas         |         |
| (15) | Labor Safety, Safety Rules for Cranelifts,      | 3 hours |
|      | Safety Rules for Boilers and Pressure Vessels,  |         |
|      | etc.)   |         |
| (16) | Safety Standard of Machinery and Equipment      | 3 hours |
|      | Hazardous chemical management-related laws      |         |
|      | and regulations (including Regulations on       |         |
|      | Hazardous Chemicals Assessment and Control      |         |
|      | Banding, Regulations on New Chemical            |         |
| (17) | Substances Registration, Regulations            | 3 hours |
|      | Governing Designation and Handling              |         |
|      | Permission of Controlled Chemicals,             |         |
|      | Regulations Governing Designating and           |         |
|      | Handling of Priority Management Chemicals)      |         |
| (18) | Regulations for Periodic Implementation of      | 2.1     |
|      | Process Safety Assessment                       | 3 hours |
| (19) | Laws and regulations related to operations with |         |
|      | special hazards (including Standards for Labor  |         |
|      | Work/Rest Time in High-Temperature              | 2 h a   |
|      | Workplace, Protection Standards for Labors in   | 2 hours |
|      | Heavy Physical Operations, Vision Protection    |         |
|      | Standards for Labors in Precision Operations,   |         |
|      | <del>_</del>                                    |         |

|             |   | 1            |
|-------------|---|--------------|
|             | Protection Standards for Labors Working at    |              |
|             | Height, Prevention Standards of Abnormal      |              |
|             | Pressure Hazards, etc.)                       |              |
|             | Machinery, equipment and device safety-       |              |
|             | related management laws and regulations       |              |
|             | (including Implementation, Supervision and    |              |
| (20)        | Management Measures for Mechanical Product    | 2.1          |
| (20)        | Type Certification, Machinery and Equipment   | 3 hours      |
|             | Safety Information Reporting and Registration |              |
|             | Measures, Supervision and Management          |              |
|             | Measures for Machinery and Equipment, etc.)   |              |
| 2           | Occupational safety and health planning and   |              |
| 2.          | management                                    | 16 hours     |
|             | Occupational safety and health management     |              |
| (1)         | system (including contract management,        |              |
| (1)         | procurement management and management of      | 4 hours      |
|             | change)                                       |              |
|             |   | 2 hours      |
| (2)         | Establishment of safety and health work codes | (including 1 |
| (2)         |   | hour of      |
|             |   | practicum)   |
|             |   | 6 hours      |
| (2)         | Establishment of safety and health            | (including 2 |
| (3)         | management regulations and occupational       | hours of     |
|             | safety and health management plan             | practicum)   |
|             |   | 4 hours      |
| (4)         | Establishment job safety analysis and safety  | (including 2 |
| (4)         | operation standards                           | hours of     |
|             |   | practicum)   |
| 3.          | Professional courses                          | 56 hours     |
| (1)         | Advanced introduction of occupational safety  | 3 hours      |
| (2)         | Risk assessment (including construction risk  | 2 hours      |
| (2)         | assessment)                                   | 2 110UIS     |
| (3)         | Construction operation safety                 | 3 hours      |
| <del></del> |   |              |

| (4)  | Electrical safety   | 3 hours  |
|------|---|--|
|      | ·   |  |
| (5)  | Machinery safety protection   | 3 hours  |
| (6)  | Workplace design and layout   | 3 hours  |
| (7)  | System safety and run-away reaction control   | 4 hours  |
| (8)  | Loss control and risk management  | 4 hours  |
| (9)  | Fire and explosion hazard prevention  | 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) | Human factor engineering  | 3 hours  |
| (14) | Labor physiology  | 2 hours  |
| (15) | Workplace health management (including physical and mental health hazards, tobacco control and AIDS prevention) | 2 hours  |
| (16) | Workplace control engineering   | 3 hours  |
| (17) | Organization coordination and communication (including professional ethics)                                     | 2 hours  |
| (18) | Occupational accident response, investigation and statistics  | 3 hours (including 1 hour of practicum)                          |
| (19) | Safety and health monitoring instruments  | 4 hours (2<br>hours for<br>safety and<br>health<br>respectively) |

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

| No.  | Course Name   | Hour(s)    |
|------|---|------------|
| 1    | Occupational safety and health-related                    | 51 hours   |
|      | regulations   |            |
| (1)  | Introduction to labor laws (including labor               | 3 hours    |
|      | inspection laws and regulations)                          |            |
| (2)  | Occupational safety and health laws and                   | 3 hours    |
|      | regulations   | 0 110 0110 |
| (3)  | Occupational Safety and Health Facility Rules             | 6 hours    |
| (4)  | Regulations of Occupational Safety and Health             | 3 hours    |
|      | Management  Occupation of Sefeta and Health Education and |            |
| (5)  | Occupational Safety and Health Education and              | 2 hours    |
|      | Training Rules  |            |
|      | Labor health-related laws and regulations                 |            |
|      | (including Labor Health Protection Rules,                 |            |
|      | Regulations of the Maternity Health Protection            |            |
| (6)  | at the Workplace, Conducting Labor Physical               | 3 hours    |
|      | and Medical Examination and Accreditation of              |            |
|      | Health and Inspection Medical Institutions and            |            |
|      | their Management Measures, etc.)                          |            |
|      | Hazardous Workplace Safety and Management                 |            |
|      | Regulations (including Hazardous Workplace                |            |
| (7)  | Review and Inspection Regulations, Regulations            | 2 hours    |
|      | for Periodic Implementation of Process Safety             |            |
|      | Assessment, etc.)   |            |
| (0)  | Construction safety and health-related                    | 2.1        |
| (8)  | regulations   | 2 hours    |
| (0)  | Prevention Rules of Organic Solvent                       | 0.1        |
| (9)  | Intoxication  | 2 hours    |
| (10) | Lead Intoxication Prevention Rules                        | 2 hours    |

| •     |   |          |
|-------|---|----------|
| (11)  | Prevention Standards of Specified Chemical        | 2 hours  |
| (4.5) | Substance Hazards                                 |          |
| (12)  | Dust Hazard Prevention Standards                  | 2 hours  |
| (13)  | Permissible Exposure Levels of Workplace          | 2 hours  |
| (13)  | Airborne Harmful Substances                       | 2 110415 |
| (14)  | Hypoxia Prevention Rules (including Hazards       | 3 hours  |
| (14)  | Prevention Rules of Confined Space)               | 3 Hours  |
| (15)  | Regulations for the Labeling and Hazard           | 3 hours  |
| (13)  | Communication of Hazardous Chemicals              | 3 Hours  |
| (16)  | Labor Workplace Monitoring Implementation         | 2 hours  |
| (16)  | Regulations                                       | Z Hours  |
|       | Hazardous chemical management-related laws        |          |
|       | and regulations (including Regulations on         |          |
|       | Hazardous Chemicals Assessment and Control        |          |
|       | Banding, Regulations on New Chemical              |          |
| (17)  | Substances Registration, Regulations Governing    | 3 hours  |
|       | Designation and Handling Permission of            |          |
|       | Controlled Chemicals, Regulations Governing       |          |
|       | Designating and Handling of Priority              |          |
|       | Management Chemicals)                             |          |
|       | Laws and regulations related to operations with   |          |
|       | special hazards (including Standards for Labor    |          |
|       | Work/Rest Time in High-Temperature                |          |
|       | Workplace, Protection Standards for Labors in     |          |
| (18)  | Heavy Physical Operations, Vision Protection      | 4 hours  |
|       | Standards for Labors in Precision Operations,     |          |
|       | Protection Standards for Labors Working at        |          |
|       | Height, and Prevention Standards of Abnormal      |          |
|       | Pressure Hazards, etc.)                           |          |
|       | Hazardous machinery and equipment                 |          |
|       | safety-related regulations (Including             |          |
| (19)  | Regulations Governing High Pressure Gas           | 2 hours  |
|       | Labor Safety, Safety Rules for Cranelifts, Safety |          |
|       | Rules for Boilers and Pressure Vessels, etc.)     |          |
| •     | •   | •        |

| Establishment of safety and health work codes  Establishment of safety and health management regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety (includin 2 hours of practicum 4 hours (includin operation standards 2 hours of practicum 3. Professional courses 63 hours (1) Advanced introduction of occupational safety 3 hours (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention (3) Hazardous chemical substance exposure risk assessment and management (4) Health risk assessment 3 hours (5) Personal protective equipment (including respiratory protection plan) 4 hours (6) Noise and vibration 3 hours (7) Hot and humid environment 3 hours (8) Lighting and illumination 2 hours (9) Non-ionizing radiation and ionizing radiation 3 hours (9)  |      | <del>-</del>  |            |
|--|------|---|------------|
| Occupational safety and health management system (including contract management, procurement management and management of change)  (2) Establishment of safety and health work codes  Establishment of safety and health management regulations and occupational safety and health management plan  (3) Establishment job safety analysis and safety operation standards  (4) Establishment job safety analysis and safety operation standards  (5) Introduction to Occupational Hygiene and Occupational Diseases Prevention  (6) Hazardous chemical substance exposure risk assessment and management  (7) Health risk assessment  (8) Versonal protective equipment (including respiratory protection plan)  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  2 hours operational Ahours  4 hours  4 hours  3 hours  4 hours  4 hours  3 hours  4 hours  | 2.   |   | 16 hours   |
| (1) system (including contract management, procurement management and management of change)  (2) Establishment of safety and health work codes  (3) Establishment of safety and health management regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety operation standards  (5) Establishment job safety analysis and safety operation standards  (6) Hours operation standards  (7) Health risk assessment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (1) A hours  (2) A hours  (3) A hours  (4) Health risk assessment  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (1) A hours  (2) Hours  (3) A hours  (4) Health risk assessment  (5) A hours  (6) Non-ionizing radiation and ionizing radiation  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (1) A hours  |      |   |            |
| (2) Establishment of safety and health work codes  Establishment of safety and health management regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety operation standards  Establishment job safety analysis and safety operation standards  (5) Professional courses  (1) Advanced introduction of occupational safety  (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention  (3) Hazardous chemical substance exposure risk assessment and management  (4) Health risk assessment  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (6) hours (including 2) hours  (including 2) hours  (including 2) hours  (including 2) hours  (including 2) hours  (including 2) hours  (4) hours  (5) Personal protective equipment (including 2) hours  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (1) Advanced introduction of occupational safety  (2) Advanced introduction of occupational safety  (3) Abours  (4) Hours  (5) Personal protective equipment (including 2) hours  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  | (1)  | system (including contract management, procurement management and management of | 4 hours    |
| Establishment of safety and health work codes  Establishment of safety and health management regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety (includin 2 hours of practicum 4 hours (includin operation standards 2 hours of practicum 3. Professional courses 63 hours (1) Advanced introduction of occupational safety 3 hours (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention 4 hours assessment and management 4 hours (3) Hazardous chemical substance exposure risk assessment and management (4) Health risk assessment 3 hours (5) Personal protective equipment (including respiratory protection plan) 4 hours (6) Noise and vibration 3 hours (7) Hot and humid environment 3 hours (8) Lighting and illumination 2 hours (9) Non-ionizing radiation and ionizing radiation 3 hours  |      |   | 2 hours    |
| Establishment of safety and health management regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety operation standards  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (6) hours (includin 2 hours operations)  (1) A hours (includin 2 hours operations)  (2) A hours (3) hours (4) hours (5) Personal protective equipment (including respiratory protection plan)  (8) Lighting and illumination (9) Non-ionizing radiation (10) hours (10) hou | (2)  | Establishment of safety and health work codes                                   | (including |
| Establishment of safety and health management regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety (includin 2 hours of practicum 4 hours (includin 2 hours of practicum 2 hours of practicum 3. Professional courses (3 hours 1) Hours (3 hours 1) Hazardous chemical substance exposure risk assessment and management (4) Health risk assessment (5) Personal protective equipment (including respiratory protection plan) (6) Noise and vibration (7) Hot and humid environment (9) Non-ionizing radiation and ionizing radiation (including rediction 2) (including radiation and ionizing radiation (including rediction (including 3 hours (2) hours (3) (3) (4) (4) (5) (6) (6) (7) (6) (7) (7) (7) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9   |      |   | practicum) |
| (3) regulations and occupational safety and health management plan  (4) Establishment job safety analysis and safety (includin 2 hours operation standards  (5) Professional courses (1) Advanced introduction of occupational safety (includin 2 hours operacticum 3 hours (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention (3) Hazardous chemical substance exposure risk assessment and management (3) Health risk assessment (4) Health risk assessment (5) Personal protective equipment (including respiratory protection plan) (5) Personal protective equipment (including 1 hours (6) Noise and vibration (7) Hot and humid environment (8) Lighting and illumination (9) Non-ionizing radiation and ionizing radiation (3) hours  |      | Establishment of safety and health management                                   | 6 hours    |
| management plan  Establishment job safety analysis and safety (includin 2 hours operation standards  Professional courses  (1) Advanced introduction of occupational safety  Introduction to Occupational Hygiene and Occupational Diseases Prevention  (3) Hazardous chemical substance exposure risk assessment and management  (4) Health risk assessment  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  2 hours   | (3)  |   | (including |
| (4) Establishment job safety analysis and safety operation standards (includin 2 hours operation standards 2 hours of practicum 3. Professional courses 63 hours (1) Advanced introduction of occupational safety 3 hours (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention 3 hours (3) Hazardous chemical substance exposure risk assessment and management 4 hours (4) Health risk assessment 3 hours (5) Personal protective equipment (including respiratory protection plan) 4 hours (6) Noise and vibration 3 hours (7) Hot and humid environment 3 hours (8) Lighting and illumination 2 hours (9) Non-ionizing radiation and ionizing radiation 3 hours  |      |   | 2 hours of |
| (4) Establishment job safety analysis and safety operation standards  2 hours operation standards  3. Professional courses  (1) Advanced introduction of occupational safety  (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention  (3) Hazardous chemical substance exposure risk assessment and management  (4) Health risk assessment  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  (including 2 hours  3 hours  4 hours  4 hours  3 hours  7 Hot and humid environment  3 hours   |      |   | practicum) |
| operation standards  2 hours of practicum  3. Professional courses  (1) Advanced introduction of occupational safety  (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention  (3) Hazardous chemical substance exposure risk assessment and management  (4) Health risk assessment  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  2 hours  2 hours  2 hours  2 hours  3 hours  |      |   |            |
| practicum 3. Professional courses 63 hours  (1) Advanced introduction of occupational safety 3 hours  (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention  (3) Hazardous chemical substance exposure risk assessment and management 4 hours  (4) Health risk assessment 3 hours  (5) Personal protective equipment (including respiratory protection plan) 4 hours  (6) Noise and vibration 3 hours  (7) Hot and humid environment 3 hours  (8) Lighting and illumination 2 hours  (9) Non-ionizing radiation and ionizing radiation 3 hours   | (4)  |   | '          |
| 3.Professional courses63 hours(1)Advanced introduction of occupational safety3 hours(2)Introduction to Occupational Hygiene and Occupational Diseases Prevention3 hours(3)Hazardous chemical substance exposure risk assessment and management4 hours(4)Health risk assessment3 hours(5)Personal protective equipment (including respiratory protection plan)4 hours(6)Noise and vibration3 hours(7)Hot and humid environment3 hours(8)Lighting and illumination2 hours(9)Non-ionizing radiation and ionizing radiation3 hours   |      |   |            |
| (1)Advanced introduction of occupational safety3 hours(2)Introduction to Occupational Hygiene and Occupational Diseases Prevention3 hours(3)Hazardous chemical substance exposure risk assessment and management4 hours(4)Health risk assessment3 hours(5)Personal protective equipment (including respiratory protection plan)4 hours(6)Noise and vibration3 hours(7)Hot and humid environment3 hours(8)Lighting and illumination2 hours(9)Non-ionizing radiation and ionizing radiation3 hours   | 2    |   |            |
| (2) Introduction to Occupational Hygiene and Occupational Diseases Prevention  (3) Hazardous chemical substance exposure risk assessment and management  (4) Health risk assessment  (5) Personal protective equipment (including respiratory protection plan)  (6) Noise and vibration  (7) Hot and humid environment  (8) Lighting and illumination  (9) Non-ionizing radiation and ionizing radiation  3 hours  2 hours   | 3.   |   |            |
| Occupational Diseases Prevention  Hazardous chemical substance exposure risk assessment and management  Health risk assessment  Personal protective equipment (including respiratory protection plan)  Noise and vibration  Hot and humid environment  A hours  hours  hours  The presonal protective equipment (including and including respiratory protection plan)  Lighting and illumination  Non-ionizing radiation and ionizing radiation  hours  hours  hours  hours  hours   | (1)  | Advanced introduction of occupational safety                                    | 3 hours    |
| (3)assessment and management4 hours(4)Health risk assessment3 hours(5)Personal protective equipment (including respiratory protection plan)4 hours(6)Noise and vibration3 hours(7)Hot and humid environment3 hours(8)Lighting and illumination2 hours(9)Non-ionizing radiation and ionizing radiation3 hours   | (2)  |   | 3 hours    |
| (4)Health risk assessment3 hours(5)Personal protective equipment (including respiratory protection plan)4 hours(6)Noise and vibration3 hours(7)Hot and humid environment3 hours(8)Lighting and illumination2 hours(9)Non-ionizing radiation and ionizing radiation3 hours  | (3)  | _   | 4 hours    |
| Personal protective equipment (including respiratory protection plan)  4 hours  Noise and vibration  3 hours  Hot and humid environment  3 hours  Lighting and illumination  2 hours  Non-ionizing radiation and ionizing radiation  3 hours   | (A)  |   | 2.1        |
| (5) respiratory protection plan)  (6) Noise and vibration 3 hours  (7) Hot and humid environment 3 hours  (8) Lighting and illumination 2 hours  (9) Non-ionizing radiation and ionizing radiation 3 hours   | (4)  |   | 3 hours    |
| (7) Hot and humid environment 3 hours (8) Lighting and illumination 2 hours (9) Non-ionizing radiation and ionizing radiation 3 hours  | (5)  |   | 4 hours    |
| (8) Lighting and illumination 2 hours (9) Non-ionizing radiation and ionizing radiation 3 hours  | (6)  | Noise and vibration   | 3 hours    |
| (9) Non-ionizing radiation and ionizing radiation 3 hours  | (7)  | Hot and humid environment   | 3 hours    |
|  | (8)  | Lighting and illumination   | 2 hours    |
| (10) Introduction to workplace monitoring 2 hours  | (9)  | Non-ionizing radiation and ionizing radiation                                   | 3 hours    |
| (10) Introduction to workplace monitoring 3 hours  | (10) | Introduction to workplace monitoring  | 3 hours    |
| (11) Physical factor workplace monitoring (including 3 hours   | (11) | Physical factor workplace monitoring (including                                 | 3 hours    |

|      | monitoring instrument)  |   |
|------|---|---|
| (12) | Chemical factor workplace monitoring (including monitoring instrument)  | 3 hours                                 |
| (13) | Introduction to industrial toxicology   | 2 hours                                 |
| (14) | Labor physiology  | 2 hours                                 |
| (15) | Workplace physical and mental health management   | 3 hours                                 |
| (16) | Labor health and banding management (including biologic pathogen hazard, maternity health, tobacco control and AIDS prevention) | 2 hours                                 |
| (17) | First Aid   | 3 hours                                 |
| (18) | Workplace control engineering   | 3 hours                                 |
| (19) | Organization coordination and communication (including professional ethics)   | 2 hours                                 |
| (20) | Occupational accident response, investigation and statistics  | 3 hours (including 1 hour of practicum) |
| (21) | Ventilation and air exchange  | 3 hours                                 |
| (22) | Local ventilation control and design  | 3 hours                                 |

III. Courses and hours of safety and health education and trainingsspecified for occupational safety and health management staff (total115 hours, including 6 hours of practicum)

| No.  | Course Name   | Hour(s)  |
|------|---|----------|
| 1    | Occupational safety and health-related regulations  | 43 hours |
| (1)  | Introduction to labor laws (including labor inspection laws and regulations)  | 3 hours  |
| (2)  | Occupational safety and health laws and regulations   | 3 hours  |
| (3)  | Occupational Safety and Health Facility Rules   | 6 hours  |
| (4)  | Regulations of Occupational Safety and Health Management  | 3 hours  |
| (5)  | Occupational Safety and Health Education and Training Rules   | 2 hours  |
| (6)  | Introduction to labor health laws and regulations (including Labor Health Protection Rules, Regulations of the Maternity Health Protection at the Workplace, etc.)                                  | 2 hours  |
| (7)  | Hazardous Workplace Safety and Management Regulations (including Hazardous Workplace Review and Inspection Regulations, Regulations for Periodic Implementation of Process Safety Assessment, etc.) | 2 hours  |
| (8)  | Construction safety and health-related regulations  | 2 hours  |
| (9)  | Regulations for the Labeling and Hazard Communication of Hazardous Chemicals  | 2 hours  |
| (10) | Hypoxia Prevention Rules (including Hazards Prevention Rules of Confined Space)   | 3 hours  |
| (11) | Hazardous machinery and equipment safety-related regulations (Including   | 2 hours  |

|      |   | 1       |
|------|---|---------|
|      | Regulations Governing High Pressure Gas         |         |
|      | Labor Safety, Safety Rules for Cranelifts,      |         |
|      | Safety Rules for Boilers and Pressure Vessels,  |         |
|      | etc.)   |         |
|      | Machinery, equipment and device safety-         |         |
|      | related management laws and regulations         |         |
|      | (including Implementation, Supervision and      |         |
| (12) | Management Measures for Mechanical Product      | 2 hours |
| (12) | Type Certification, Machinery and Equipment     | 3 hours |
|      | Safety Information Reporting and Registration   |         |
|      | Measures, Supervision and Management            |         |
|      | Measures for Machinery and Equipment, etc.)     |         |
|      | Hazardous chemical management-related laws      |         |
|      | and regulations (including Regulations on       |         |
|      | Hazardous Chemicals Assessment and Control      |         |
|      | Banding, Regulations on New Chemical            |         |
| (13) | Substances Registration, Regulations            | 3 hours |
|      | Governing Designation and Handling              |         |
|      | Permission of Controlled Chemicals,             |         |
|      | Regulations Governing Designating and           |         |
|      | Handling of Priority Management Chemicals)      |         |
|      | Harmful substance hazard prevention laws and    |         |
|      | regulations (including Prevention Rules of      |         |
|      | Organic Solvent Intoxication, Prevention        |         |
| (14) | Standards of Specified Chemical Substance       | 3 hours |
|      | Hazards, Lead Intoxication Prevention Rules,    |         |
|      | Dust Hazard Prevention Standards, Prevention    |         |
|      | Rules of Tetra-Alkyl Lead Intoxication, etc.)   |         |
|      | Laws and regulations related to operations with |         |
| (15) | special hazards (including Standards for Labor  |         |
|      | Work/Rest Time in High-Temperature              | 2 hours |
|      | Workplace, Protection Standards for Labors in   | 2 hours |
|      | 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) | Labor Workplace Monitoring Implementation                | 2 hours      |
| (10) | Measures and Permissible Exposure Levels                 | 2 110415     |
| 2.   | Occupational safety and health planning and management   | 16 hours     |
|      | Occupational safety and health management                |              |
| (1)  | system (including contract management,                   | 4.1          |
| (1)  | procurement management and management of                 | 4 hours      |
|      | change)  |              |
|      |  | 2 hours      |
| (2)  | Establishment of safety and health work codes            | (including 1 |
| ,    |  | hour of      |
|      |  | practicum)   |
|      | Establishment of safety and health                       | 6 hours      |
| (3)  | management regulations and occupational                  | (including 2 |
| (3)  |  | hours of     |
|      | safety and health management plan                        | practicum)   |
|      |  | 4 hours      |
| (4)  | Establishment job safety analysis and safety             | (including 2 |
| (4)  | operation standards                                      | hours of     |
|      |  | practicum)   |
| 3.   | Professional courses                                     | 56 hours     |
| (1)  | Introduction to occupational safety                      | 3 hours      |
| (2)  | Risk assessment (including construction risk assessment) | 2 hours      |
| (3)  | Construction operation safety                            | 3 hours      |
| (4)  | Electrical safety  | 3 hours      |
| (5)  | Machinery safety protection                              | 3 hours      |
| (6)  | Prevention of falling hazards (including                 | 4 hours      |
| (6)  | collapsing, falling)                                     | 4 110u18     |
| (7)  | Fire and explosion prevention                            | 3 hours      |
|      | · · · · · · · · · · · · · · · · · · ·                    |              |

|      |   | 1  |
|------|---|--|
| (8)  | Dangerous machinery and equipment management  | 3 hours  |
| (9)  | Material handling   | 2 hours  |
| (10) | Introduction to occupational hygiene and occupational diseases prevention                                       | 3 hours  |
| (11) | Personal protective equipment   | 3 hours  |
| (12) | Physical hazard prevention  | 2 hours  |
| (13) | Chemical hazard prevention  | 2 hours  |
| (14) | First Aid   | 3 hours  |
| (15) | Workplace health management (including physical and mental health hazards, tobacco control and AIDS prevention) | 2 hours  |
| (16) | Workplace control engineering   | 3 hours  |
| (17) | Organization coordination and communication (including professional ethics)                                     | 2 hours  |
| (18) | Occupational accident response, investigation and statistics  | 3 hours (including 1 hour of practicum)              |
| (19) | Safety and health monitoring instruments  | 4 hours (2 hours for safety and health respectively) |
| (20) | Ventilation and air exchange  | 3 hours  |