Annex 12  Courses and hours of safety and health education & trainings specified for special operations

I. Special safety and health education courses and hours for small boiler operators (18 hours):
(1) Small boiler relevant regulations  1 hours
(2) Types and structures of boilers  2 hours
(3) Ancillary devices and accessories of boilers  2 hours
(4) Feed water and processing of boilers  2 hours
(5) Boiler fuel and combustion  2 hours
(6) Self-inspection and accident prevention of boilers  3 hours
(7) Safety operation practicum of small boilers  6 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.

II. Special safety and health education courses and hours for operators of forklifts with capacity of above 1 ton (18 hours):
1. Forklift relevant regulations  1 hour
2. Structure and operation methods of forklift driving devices  2 hours
3. Structure and operation methods of forklift unloading devices  3 hours
4. Relevant mechanical knowledge of forklift operation  2 hours
5. Self-inspection and accident prevention of forklift  2 hours
6. Forklift operation practicum  8 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.

III. Special safety and health education courses and hours for operators of fixed cranes, mobile cranes and derrick cranes with hoisting capacity less than 3 tons (18 hours):
1. Crane related regulations  2 hours
2. Introduction to cranes (fixed crane, mobile crane or derrick cranes)  3 hours
3. Related knowledge of prime motor and electric  2 hours
4. Related mechanic knowledge of hoist and hanging  2 hours
5. Safety operation guidelines and accident prevention  3 hours
6. Hoist and hanging operation practicum  6 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.
IV. Special safety and health education courses and hours for operators of hoisting work by using cranes (18 hours):
1. Hoist and hanging related regulations 1 hour
2. Introduction to cranes 2 hours
3. Related mechanic knowledge of hoist and hanging 2 hours
4. Hanging tool selection and hoisting methods 2 hours
5. Operation guidelines and accident prevention of hoist and hanging 3 hours
6. Hoisting operation practicum 8 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.

V. Special safety and health education courses and hours for operators using acetylene sealing devices or gas bundle devices (referred to as acetylene sealing operations) for sealing, cutting or heating (18 hours):
1. Laws and regulations relevant to labor safety & health in acetylene sealing operations 1 hour
2. Acetylene sealing devices and gas bundle devices 3 hours
3. The structure and operation methods of necessary equipments for acetylene sealing operations 3 hours
4. Introduction to flammable gases and oxygen used for acetylene sealing operations 3 hours
5. Safety operation guidelines and accident prevention 2 hours
6. Acetylene sealing operation practicum 6 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.

VI. Special safety and health education courses and hours for operators of gunpowder blasting operations (18 hours):
1. Laws and regulations relevant to labor safety & health in gunpowder blasting operations 1 hour
2. Basic gunpowder knowledge 3 hours
3. Gunpowder handling safety 3 hours
4. Explosion operation procedures and blasting operation safety 6 hours
5. Gunpowder blasting accident prevention 2 hours
6. Practicum of gunpowder blasting operation safety 3 hours
Note: The operation practicum shall be divided by groups, less than 15
persons per group. It may be conducted by groups at the same time or by sequence.

VII. Special safety and health education courses and hours for lumberjacks for trees with diameter over 70cm at breast height (15 hours):
1. Laws and regulations relevant to labor safety & health in logging operations 1 hour
2. Vibration injuries and prevention 2 hours
3. Logging operation safety and accident prevention 3 hours
4. Chain saw structure and operations 3 hours
5. Self-inspection and abnormal treatment for chain saws 3 hours
6. Logging and chain saw operation practicum 3 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.

VIII. Special safety and health education courses and hours for operators for wood mechanical skidding and transportation (24 hours):
1. Laws and regulations relevant to labor safety & health in wood mechanical skidding and transportation 1 hour
2. Structure and functions of wood skidding machinery 4 hours
3. Skidding rigging and cable system operations 3 hours
4. Self-inspection and accident prevention for wood skidding and transportation machinery 3 hours
5. Mechanical skidding and transportation safety practicum 13 hours
Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.

IX. Special safety and health education courses and hours for personnel in high-pressure chamber operations:
1. Special safety and health education courses and hours for air compressor operators in operation room or airlock chamber (12 hours):
   (1) Laws and regulations relevant to labor safety & health for abnormal pressure hazard prevention 2 hours
   (2) Structure and operation of air in-take equipment 4 hours
   (3) Air compressor operations 2 hours
   (4) Related knowledge of abnormal pressure damage 2 hours
   (5) Related knowledge of air pressing construction methods 2 hours
2. Special safety and health education courses and hours for air deliver regulator valve and cock operators in operation chamber (12 hours):
   (1) Laws and regulations relevant to labor safety & health for abnormal pressure hazard prevention  2 hours
   (2) Related knowledge of abnormal pressure damage  2 hours
   (3) Related knowledge of air pressing construction methods  2 hours
   (4) Related knowledge of air in-take and exhaust  4 hours
   (5) In-take air regulation operation practicum  2 hours
3. Special safety and health education courses and hours for operators of air in-take & discharge valve and cock in airlock chamber (12 hours):
   (1) Laws and regulations relevant to labor safety & health for abnormal pressure hazard prevention  2 hours
   (2) Related knowledge of abnormal pressure damage  2 hours
   (3) Related knowledge of air pressing construction methods  2 hours
   (4) Pressure increasing, reduction and exchange methods  3 hours
   (5) Pressure increasing, reduction and exchange operation practicum  3 hours
4. Special safety and health education courses and hours for operators in recompression chamber (12 hours):
   (1) Laws and regulations relevant to labor safety & health for abnormal pressure hazard prevention  2 hours
   (2) Related knowledge of abnormal pressure damage  2 hours
   (3) Related knowledge of air pressing construction methods  2 hours
   (4) Related knowledge of first aid methods for recompression chamber  3 hours
   (5) Related knowledge of first aid and resuscitation methods  2 hours
   (5) Recompression chamber operation practicum and first aid and resuscitation practicum  3 hours
5. Special safety and health education courses and hours for operators in high pressure chamber (other than operators specified in items 1, 2) (12 hours):
   (1) Laws and regulations relevant to labor safety & health for abnormal pressure hazard prevention  2 hours
   (2) Related knowledge of abnormal pressure damage  2 hours
   (3) Related knowledge of air pressing construction methods  2 hours
   (4) Related knowledge of air pressing construction equipment  2 hours
   (5) Related knowledge of pressure rapidly decreasing and fire prevention  3 hours
X. The safety and health education courses and hours for diving operation personnel (18 hours):

1. Laws and regulations relevant to labor safety & health 2 hours
2. Abnormal Pressure Hazard Prevention Standards 2 hours
3. Introduction to diving environment and work plan 4 hours
4. Diving incident injury prevention 2 hours
5. Diving incident emergency treatment 2 hours
6. Calculation and decompression procedures of diving decompression meter 2 hours
7. Introduction to diving medicine 2 hours
8. Related knowledge of inspection, utilization and maintenance of diving equipment (including decompression chamber) 2 hours

XI. Special safety and health education courses and hours for oil tanker cleanup operators (18 hours):

1. Laws and regulations relevant to oil tanker cleanup operations 3 hours
2. Safety operation program of oil tanker cleanup 3 hours
3. Fire explosion prevention 2 hours
4. Falling disaster prevention 2 hours
5. Hypoxia hazard prevention 2 hours
6. Safety measures before entering the tank 2 hours
7. Gas concentration monitor practicum 2 hours
8. Tanker washing machine operation practicum 2 hours

Note: The operation practicum shall be divided by groups, less than 15 persons per group. It may be conducted by groups at the same time or by sequence.