

## **Annex 12 Courses and Hours of Safety and Health Education and Trainings specified for Special Operations**

### **I. Special safety and health education courses and hours for small boiler operators (18 hours)**

No.	Course Name	Hour(s)
1	Small boiler relevant regulations	1 hour
2.	Types and structures of boilers	2 hours
3.	Auxiliary 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 above 1 ton (18 hours)**

No.	Course Name	Hour(s)
1	Forklift-related 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 greater than 0.5 ton but less than 3 tons (18 hours)

No.	Course Name	Hour(s)
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 aerial work platform (16 hours)

No.	Course Name	Hour(s)
1	Aerial work platform related regulations	1 hour
2.	Aerial work platform structure basics and prime motor related knowledge	3 hours
3.	Aerial work platform work, installation use and operation related knowledge	4 hours
4	Aerial work platform operation practicum (including vertical lifting type and carrier type)	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 of hoisting work by using cranes (18 hours)

No.	Course Name	Hour(s)
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 hoisting 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.

VI. Special safety and health education courses and hours for operators using acetylene sealing devices or gas bundle devices (referred to as acetylene welding operations) for sealing, cutting or heating (18 hours)

No.	Course Name	Hour(s)
1	Laws and regulations related to labor safety and 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 equipment 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
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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 operators of gunpowder blasting operations (18 hours)

No.	Course Name	Hour(s)
1	Laws and regulations relevant to labor safety and 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.

VIII. Special safety and health education courses and hours for lumberjacks for trees with diameter over 70cm at breast height (15 hours)

No.	Course Name	Hour(s)
1	Laws and regulations relevant to labor safety and 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 handling of chain saws	3 hours

6	Logging and chain saw operation practicum	3 hours
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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 operators for wood mechanical skidding and transportation (24 hours)

No.	Course Name	Hour(s)
1	Laws and regulations relevant to labor safety and 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.

X. Special safety and health education courses and hours for personnel of 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)

No.	Course Name	Hour(s)
(1)	Laws and regulations relevant to labor safety and 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	2 hours

	damage	
(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)

No.	Course Name	Hour(s)
(1)	Laws and regulations relevant to labor safety and 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 and discharge valve and cock in airlock chamber (12 hours)

No.	Course Name	Hour(s)
(1)	Laws and regulations relevant to labor safety and 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)

No.	Course Name	Hour(s)
(1)	Laws and regulations relevant to labor safety and health for abnormal pressure hazard prevention	2 hours
(2)	Related knowledge of abnormal pressure damage	2 hours
(3)	Related knowledge of first aid methods for recompression chamber	3 hours
(4)	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)

No.	Course Name	Hour(s)
(1)	Laws and regulations relevant to labor safety and health for abnormal pressure hazard prevention	2 hours
(2)	Related knowledge of abnormal pressure damage	3 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

XI. Safety and health education courses and hours for diving operation personnel (18 hours)

No.	Course Name	Hour(s)
1	Occupational safety and health laws and regulations	2 hours
2.	Abnormal pressure hazard prevention standard	2 hours

3.	Introduction to diving environment and operation plan	4 hours
4	Diving accident injury prevention	2 hours
5	Diving incident emergency handling	2 hours
6	Calculation and decompression procedure 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

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

No.	Course Name	Hour(s)
1	Laws and regulations relevant to oil tanker cleanup operations	3 hours
2.	Safety operation program of oil tanker cleanup	3 hours
3.	Fire and explosion prevention	2 hours
4	Falling accident 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.