

- representation or the concealment of any material fact;
  - (b) has been certified unfit by a registered medical practitioner to drive or operate a mobile crane or a tower crane; or (c) has failed to comply with any of the duties set out in these Regulations.
- (2) A registered crane operator shall, upon becoming aware of any medical condition which may render him unfit to operate a mobile crane or a tower crane, inform the Chief Inspector of such medical condition without undue delay.

Notice of cancellation of registration.

14. —(1) When the Chief Inspector has cancelled the registration of a registered crane operator under regulation 13, the Chief Inspector shall forthwith inform the registered crane operator concerned by notice in writing of such cancellation.
- (2) An order of cancellation shall take effect on the date of the service of the order on the registered crane operator.
- (3) A registered crane operator whose registration has been cancelled by the Chief Inspector under regulation 13 may, within 21 days of the date of the service of the order of cancellation, appeal to the Minister whose decision shall be final.
- (4) An order of cancellation may be served on any person by delivering it to him, or by leaving it at, or sending it by registered post to, his residence.

Surrender of certificate.

15. A registered crane operator shall forthwith surrender to the Chief Inspector his certificate of registration on receipt of the order of cancellation referred to in regulation 14.

Duties of crane operator.

16. Any person operating a crane -
- (a) shall not carry out any lifting operation unless a lifting supervisor is present or has approved the carrying out of such operation;
  - (b) shall not engage in any act or manoeuvre which is not in accordance with safe and sound practice;
  - (c) shall ascertain whether the ground conditions, in particular the ground surface on which a mobile crane is to be operated, are safe for travel or any lifting operation, and if he is of the opinion that it is not safe for travel or any lifting operation, he shall report this to the lifting supervisor;
  - (d) shall not use the crane for any operation for which it is not intended, including pulling or dragging a load;
  - (e) shall not manoeuvre or hold any suspended load over any public road or public area unless that road or area has been cordoned off;
  - (f) shall ensure that any outrigger when it is required is fully extended and secured; (g) shall before the start of every workshift, carry out operational tests on all limit switches under no load conditions before any lifting operation is carried out and shall enter the results of such tests in a log-book or log-sheet;
  - (h) shall report any failure or malfunction of the crane to the lifting supervisor and shall make an appropriate entry in the log-book or log-sheet of the crane;
  - (i) shall ensure that any stationary truck mounted or wheel mounted crane is adequately and securely blocked while it is on a slope;
  - (j) shall not hoist any object if he is unable to ascertain the weight of the object;
  - (k) shall not hoist any load if there is any obstruction in the path of manoeuvre and if there is any such obstruction, he shall report this immediately to the lifting supervisor;
  - (l) shall not hoist any load unless he has received a clear signal from a signalman when this is required under regulation 19; and
  - (m) shall not operate a mobile crane or a tower crane within 3 metres of any live overhead power line.

Installation, repair, alteration, testing and dismantling of mobile crane or tower crane.

- 17.-(1) No person shall install, repair, alter or dismantle a mobile crane or a tower crane unless he is an approved crane contractor.
- (2) Paragraph (1) shall not apply -  
to the installation or dismantling of a fly jib; and  
to the repair of any non-load bearing part of a crane, unless the repair affects the safe operation of the crane, according to the safety guidelines issued by the Chief Inspector.
- (3) Subject to paragraph (4), an approved crane contractor shall-
  - (a) before he installs, repairs, alters or dismantles any mobile crane or tower crane, obtain a manufacturer's manual which contains instructions on the safe procedures for the installation, repair, alteration and dismantling of the mobile crane or tower crane; and
  - (b) ensure that the crane is installed, repaired, altered or dismantled in accordance with the instructions contained in such manual.
- (4) Where the manual referred to in paragraph (3) is not available, an approved crane contractor shall install, repair, alter or dismantle any mobile crane or tower crane under the immediate supervision of an approved person.
- (5) The owner of any mobile crane or tower crane shall ensure that -
  - (a) the crane is tested and certified safe by an approved person for the operations for which it is intended; and
  - (b) the crane shall not be used unless it has been tested and certified in accordance with sub-paragraph (a).
- (6) For the purposes of this regulation, "approved crane contractor" means any firm or company which has been approved by the Chief Inspector in writing, subject to such terms and conditions as the Chief Inspector may impose.

Appointment and duties of rigger.

- 18.-(1) No person shall rig up loads for any lifting operation by a mobile crane or tower crane unless he is a rigger appointed by an occupier.
- (2) An occupier shall appoint a rigger for the purposes set out in paragraph (5) before any lifting operation involving the use of any mobile crane or tower crane is carried out.
- (3) No person shall be appointed as a rigger unless he has successfully completed a training course approved by the Chief Inspector.
- (4) A rigger who is appointed under paragraph (1) shall be attired in such a way as would distinctively identify him as a rigger.
- (5) A rigger appointed under paragraph (1) shall -
  - (a) check the slings to be used for slinging the loads to ensure that the slings are of good construction, sound and suitable material, adequate strength and free from patent defect;
  - (b) ensure that an adequate number of legs of the sling are used and that the slinging angle is correct so as to prevent the sling from being overloaded during the hoisting;
  - (c) ascertain the weight of the load which is to be lifted and inform the crane operator of the weight of the load;
  - (d) ensure that only proper lifting gears are used in conjunction with the sling;
  - (e) ensure that the load to be lifted is secure, stable and balanced;
  - (f) ensure that any loose load including stones, bricks or tiles, is placed in a receptacle to prevent the load or part thereof from falling during the lifting operation;
  - (g) place adequate padding at the edges of the load which come in contact with the sling so as to prevent the sling from being damaged; and
  - (h) report any defect in the lifting gear to the lifting supervisor.

Appointment and duties of signalman.

- 19.-(1) An occupier shall appoint a signalman for the purposes set out in paragraph (4) before any lifting operation involving the use of any mobile crane or tower crane is carried out.

- (2) No person shall be appointed as a signaller unless he has successfully completed a training course approved by the Chief Inspector.
- (3) A signaller who is appointed under paragraph (1) shall be attired in such a way as would distinctively identify him as a signaller.
- (4) A signaller appointed under paragraph (1) shall -
  - (a) ensure or verify with the rigger that the load is properly rigged up before he gives a clear signal to the crane operator to lift the load; and
  - (b) give correct and clear signals to guide the crane operator in the manoeuvre of the load safely to its destination.

Appointment and duties of lifting supervisor.

20. — (1) An occupier shall appoint a lifting supervisor for the purposes set out in paragraph (3) before any lifting operation involving the use of any crane, mobile crane or tower crane is carried out.
- (2) No person shall be appointed as a lifting supervisor for any lifting operation involving the use of a mobile crane or tower crane unless he -
  - (a) has successfully completed a training course approved by the Chief Inspector; and ,
  - (b) has, in the opinion of the occupier, such relevant experience in lifting operations for at least one year.
- (3) A lifting supervisor appointed under paragraph (1) shall -
  - (a) coordinate all lifting activities;
  - (b) ensure that only registered crane operators, appointed riggers and appointed signallers participate in any lifting operation involving the use of a mobile crane or a tower crane;
  - (c) ensure that the ground conditions are safe for any lifting operation to be performed by any mobile crane;
  - (d) unless he is present to supervise a lifting operation, ensure that there is a set of safe lifting procedures for any lifting operation by a mobile crane or a tower crane;
  - (e) brief all crane operators, riggers and signallers on the safe lifting procedures referred to in sub-paragraph (d); and
  - (f) if any unsatisfactory or unsafe conditions are reported to him by any crane operator or rigger, take such measures to rectify the unsatisfactory or unsafe condition or otherwise ensure that any lifting operation is carried out safely.

Revocation.

21. — (1) Regulations 6 and 7 of the Factories (Crane Drivers And Operators) Regulations (Rg 10) are deleted, with effect from 1st September 1998.
- (2) The Factories (Crane Drivers and Operators) Regulations (Rg 10) are revoked, with effect from 1st March 1999.

シンガポール 工場（安全管理者の資格と訓練）告示（抜粋）

Factories Act Cap.104, Sec.71 N 1

FACTORIES (QUALIFICATIONS AND TRAINING OF  
SAFETY OFFICERS) NOTIFICATION

[1st December 1975]

S 261/75

Citation.

1. This Notification may be cited as the Factories (Qualifications and Training of Safety Officers) Notification.

Application.

2. A person who wishes to act as a safety officer in a factory shall apply to the Chief Inspector for registration in the form set out in the Schedule.

Qualifications to be a safety officer.

3. — (1) A person shall be registered as a safety officer by the Chief Inspector if the person is not less than 21 years of age and —
    - (a) (i) he holds a degree in engineering, physics, chemistry, bio-chemistry, ergonomics or occupational hygiene from an approved university or a professional diploma in engineering or a diploma in ergonomics or occupational hygiene from an approved college; and
    - (ii) he has not less than two years' practical experience relevant to the work to be performed by a safety officer under the Act;
  - (b) (i) he holds a technician diploma in engineering from an approved technical college; and
  - (ii) he has not less than 3 years' practical experience relevant to the work to be performed by a safety officer under the Act;
  - (c) he satisfies the Chief Inspector that he has, prior to 1st December 1975, not less than 3 years' practical experience relevant to the work to be performed by a safety officer under the Act; or
  - (d) he satisfies the Chief Inspector that on 1st December 1975 he was engaged in the work of a safety officer and he satisfies the Chief Inspector that he is suitable for registration as a safety officer.
- (2) If the Chief Inspector is satisfied that an applicant for registration is not entitled to be registered as a safety officer under this Notification, the Chief Inspector may refuse to register the applicant.

以下略

タイ ボイラーに係る作業の安全に関する内務省令第 10 条 (仮訳)

使用者は、原動機械技能者若しくは工場機械技能者の分野における上級専門職証書を受けた者、政府機関、国営企業若しくは労働局（現・労働保護福祉局）が認定したその他の機関が行う試験にボイラーの管理を行うことができる者として合格した者及び熟練技能者又は工学的職業の管理に関する法律に定められる機械技師の監督の下で作業を行う熟練技能者の中から、ボイラー管理者を選任しなければならない。

"Work Safety connected with Boilers" Clause 10.

Employers shall arrange for a controller to be based at the boiler who has the qualification of having received a high level professional certificate in the field of motor mechanics technician or factory mechanics technician, or experienced technician who has passed the tests of a government institute or state enterprise or other institute recognized by the Labour Department as being a person who can control boilers, or experienced technician who performs work under the supervision of a mechanical engineer in accordance with the law governing the control of the engineering profession.

## タイ 潜水作業の安全に関する内務省令第 5 条 (仮訳)

潜水作業に関連する業務を行なう労働者は、潜水作業に関する経験を有し、又は潜水作業に関する研修を修了したものであって、その職務に応じ、それぞれ次の資格要件を満たし、かつ、次の責務を負うものとする。

- 一 潜水作業主任者は、潜水作業に熟練した者であり、次の責務を負うものとする。
  - イ 作業及び潜水作業によって生ずるおそれのある危険に対する防護を計画すること。
  - ロ それぞれの作業計画ごとに、各作業者の責任、作業の実施手順及び潜水作業によって生ずるおそれのある危険に対する防護について説明し、及び指導すること並びにすべての作業者が工具及び使用器具を点検するよう監督し、かつ、当該工具及び使用器具の使用準備が整っていることを確認すること。
  - ハ 作業を指揮し、及び監督するため、全潜水作業時間にわたり当該作業に立ち合うこと。
- 二 潜水士は、潜水作業に支障をきたすことのない心身ともに潜水作業に適する者であって、潜水器具を使用し、及び管理することができ、かつ、水泳及び潜水の能力を有するものであり、次の責務を負うものとする。
  - イ 割り当てられた作業計画を確認し、かつ、理解していること。
  - ロ 作業計画、特に潜水計画を厳守して作業を行なうこと。
  - ハ 潜水器具が作業に使用できる状態にあることを点検し、及び確認すること。
- 三 連絡員は、潜水作業に関する経験及び知識を有し、かつ、潜水作業において生じるおそれのある危険な状況を回避できる者であり、次の責務を負うものとする。
  - イ 割り当てられた作業計画を確認し、かつ、理解していること。
  - ロ 作業計画及び潜水作業において生じるおそれのある危険に対する防護計画を修正し、及び理解させること。
  - ハ 全作業時間にわたり、潜水士を支援するために待機すること。
- 四 時間管理者は、潜水作業に関する経験及び知識を有し、かつ、潜水器具及び装置を使用できる者であり、次の責務を負うものとする。
  - イ それぞれの作業計画を確認し、及び理解していること。
  - ロ 潜水の開始からの潜水時間、潜水の段階ごとの時間及び水面への浮上時間を記録すること。
  - ハ 潜水の各段階において、潜水作業主任者に潜水時間の記録を報告すること。

"Safety with respect to Environmental Conditions (Diving)                      Clause 5.

The employee who performs duty relating to diving work shall be experienced or has been trained in diving work, by having the qualifications and duties as follows:

- (1) Chief Diving Team shall be person well qualified in diving work, having the duty;
  - (a) To plan the work and plan the protection against harm which may occur through diving work.
  - (b) To explain and advise the responsibility of each operator during each work plan, including the method of procedures in performance of work and protection against harm, which may occur in diving work, and to supervise that all operators check the tools and equipment to be used and see that they are in readiness for operation.
  - (c) To be present to give order and supervise the work throughout the diving period.
- (2) The divers shall be persons who are fit physically and mentally, which is not obstructing the diving work, being capable of using and taking care of the diving gears, being capable of swimming and diving, and having the duty:
  - (a) To study and understand the plan of work which is assigned throughout.
  - (b) To work strictly in accordance with the plan of work, especially diving plan.
  - (c) To check and see that the diving gears are in readiness for the work.
- (3) Diving Partner shall be person who has knowledge and experience relating to diving work and is capable of remedying the dangerous situation which may occur in diving work, and has the duty:
  - (a) To study and understand the work plan assigned throughout.
  - (b) To revise and make understanding of the work plan and the plan for protection against harm which may occur in diving work.
  - (c) To be ready to assist the diver throughout the time of work.
- (4) Diving Partner shall be person who has knowledge and experience in diving work and be capable of using the diving gears and equipment, and has the duty:
  - (a) To study and understand and each work plan.
  - (b) To record diving time from the beginning of diving, time according to the stage or diving and time for coming up to the surface.
  - (c) To report the recording of the time to the Chief Diving Team to know at all stages.

## タイ 労働者の作業安全に関する労働社会福祉省令（抜粋）（仮訳）

## 第 1 章 一般作業者レベルの安全管理者

第 7 条 50 人未満の労働者を使用する使用者は、「安全、労働衛生及び作業環境委員会に関する労働社会福祉省令」(1995 年 6 月 27 日)の規定に基づき選任されることとなる(注; 同省令第 25 条第 3 項の規定により 50 人未満の労働者を使用する使用者は、使用者と協力して事業場の作業安全の保持に従事する労働者の代表を少なくとも 1 名選任することとされている。)労働者の代表者を局長が定める研修を終了した一般作業者レベルの労働者から、この省令の施行の日又は当該労働者を労働者の代表者に任命した日から 180 日以内に事業場の一般作業者レベルの安全管理者として任命しなければならない。

第 8 条 一般作業者レベルの安全管理者は、次の各号に掲げる責務を有するものとする。

- 一 作業安全に関連する規則、規程、命令、助言又は措置を遵守するよう労働者に助言すること。
- 二 作業状態を点検し、不安全な状態を使用者に報告すること(ガイドラインを使用者に提案し、その承認を求めることを含む)。
- 三 労働者の作業に起因する傷病を、遅滞なく、使用者に報告すること。
- 四 作業安全のための活動を促進し、及び支援すること
- 五 職長レベル又は管理者レベルの安全管理者から指示された作業安全に関する職務を遂行すること。

第 9 条 使用者は、労働監督官の検査に資するため、事業場における一般作業者レベルの安全管理者の活動記録を最低 2 年間保存しなければならない。

## 第 2 章 職長レベルの安全管理者

第 10 条 使用者は、職長レベルの労働者に局長が定める研修を受講させ、当該者をこの省令の施行の日又は職長に任命した日から 180 日以内に事業場の職長レベルの安全管理者として任命しなければならない。

第 11 条 職長レベルの安全管理者は、次の各号に掲げる責務を有するものとする。

- 一 担当の職域において、労働者が作業安全に関連する規則、規程、命令又は措置を遵守するよう監督すること。
- 二 作業安全のため、担当の職域において、労働者に対する適切な作業方法を指示すること。
- 三 定常作業の開始前に、作業状態、機会、工具及び設備を点検し、それらを安全な状態に保持すること。
- 四 労働者の作業状態に起因する傷病又は妨害の原因を一般作業者レベル又は専門職レベルの安全管理者とともに調査し、遅滞なく、その結果及び事故防止のための勧告を使用者に報告すること。
- 五 作業安全のための活動を促進し、及び支援すること
- 六 管理者レベルの安全管理者から指示された作業安全に関する職務を遂行すること。

### 第3章 管理者レベルの安全管理者

第12条 使用者は、管理者レベルの労働者に局長が定める研修を受講させ、その者をこの省令の施行の日又は管理者として任命した日から180日以内に事業場の管理者レベルにおける安全管理者として任命しなければならない。ただし、管理者レベルの労働者がいない場合においては、使用者が当該研修を受講しなければならない。

第13条 管理者レベルの安全管理者は、次の各号に掲げる責務を有するものとする。

- 一 一般作業員レベル、職長レベル及び専門職レベルの安全管理者が作業安全に関する規則、規程、命令又は措置を遵守するよう監督すること。
- 二 作業安全に関する活動を促進し、及び支援すること。

### 第4章 専門職レベルの安全管理者

第14条 事業場に50人以上の労働者を有する使用者は、この省令の施行の日又は50人を超える労働者を有するようになった日から180日以内に常勤の専門職レベルの安全管理者を1人以上任命しなければならない。

第15条 専門職レベルの安全管理者は、次の各号に掲げる資格要件の1を有しなければならない。

- 一 労働衛生若しくは同等の分野又は安全、労働衛生若しくは作業環境に関する教程を含むその他の分野における学士以上の教育を修了していること。
- 二 高等専門学校以上の教育を修了し、かつ、労働保護福祉局が認定した機関において、局長が定める研修を受けて試験に合格していること。
- 三 「作業安全に関する内務省令」(1985年5月6日)(注；旧省令。この省令により廃止された。)に基づく研修を受けて試験に合格した者で、局長が定める研修を受けて試験に合格したもの。
- 四 一般作業員レベルの安全管理者として5年以上の経験を有し、かつ、過去2年間に於いて災害率を年10%以上減少させた実績を有する者であつて、労働保護福祉局が認定した機関において、局長が定める研修を受けて試験に合格したもの。

第16条 専門職レベルの安全管理者は、次の各号に掲げる職責を有するものとする。

- 一 作業安全に関する法律の遵守状況を点検し、使用者に勧告すること。
- 二 作業安全対策に関する全体活動計画及び個別プログラムを策定し、使用者に提出すること。
- 三 事業場の活動が前号の全体活動計画及び個別プログラムに基づきなされるよう点検すること。
- 四 労働者が作業安全に関する規則、規程、命令又は措置を遵守するよう監督すること。
- 五 不安全の原因を生じることなく作業が行なわれるよう労働者に助言し、及び訓練を行うこと。
- 六 作業に起因する傷病又は事故の原因を調査し、事故を防止するため、遅滞なく、その結果及び勧告を使用者に報告すること。
- 七 労働者の作業に起因する傷病又は妨害に関連する情報、統計、報告及び勧告を編集し、並びに分析すること。

マレーシア 工場・機械 (担当者) 規則 (抜粋)

FACTORIES AND MACHINERY (PERSONS-IN-CHARGE) REGULATIONS 1970

[1st February 1970]

1. These Regulations may be cited as the Factories and Machinery (Persons-in-Charge) Regulations 1970.

Interpretation.

2. In these Regulations the terms used shall, unless the context otherwise requires, have the same meanings as are respectively assigned to them by Part I of the Factories and Machinery Act 1967 referred to in these Regulations as "the Act".

PART I

MACHINERY REQUIRED TO BE IN CHARGE OF PERSONS  
HOLDING CERTIFICATES OF COMPETENCY

Machinery requiring certificated persons in charge.

3. Pursuant to section 29 (2) of the Act, a person in charge of any steam boiler, steam engine, internal combustion engine or dredge shall, except as provided hereafter, hold an appropriate certificate of competency prescribed by these Regulations.

Person or engineer in charge of machinery.

4. (1) A person in charge of a steam boiler or steam boilers shall for the purpose of these Regulations be deemed also to be in charge of any unfired pressure vessel supplied with steam therefrom.  
(2) Where these Regulations prescribe that an engineer shall be in charge of any machinery such engineer shall be in charge also of the installation of which such machinery forms part.  
(3) Where these Regulations do not prescribe that an engineer, dredgemaster or driver shall be in charge of any machinery, such machinery shall be in the charge of such person or persons as a Senior Inspector in writing may direct.

Steam boilers and engines not on a dredge.

5. (1) This Regulation shall apply to steam boilers and steam engines not installed on a dredge and in this regulation —  
"driver" means the holder of a driver's certificate of competency for steam boilers and steam engines;  
"engineer" means the holder of an engineer's certificate of competency for steam boilers and steam engines;  
"heating surface" means, in respect of any steam boiler, the total surface of all plates and tubes exposed to heat on one side and in contact with water on the other, measured on the water or fire side, whichever is the greater, and excluding the heating surface of any economiser and superheater connected thereto;  
"visiting engineer" means the holder of an engineer's certificate of competency for steam boilers and steam engines who is employed by an owner to make periodical visits to

- and inspections of, his machinery.
- (2) (i) Where the heating surface of a steam boiler, or the aggregate heating surface of steam boilers connected to a common range, is five hundred square feet or less, a first or second grade driver shall be in charge of such boiler or boilers during each shift; and
  - (ii) Where more than one steam boiler is connected to a common range or there is more than one associated steam engine, the driver in charge shall be assisted during each shift by other first or second grade drivers sufficient to ensure that including the driver in charge there shall not be more than two steam boilers or two steam engines or one combined steam boiler and steam engine to each driver.
- (3) Where the heating surface of a steam boiler, or the aggregate heating surface of steam boilers connected to a common range, is greater than five hundred square feet but not greater than two thousand square feet, a first grade driver shall be in charge of such boiler or boilers during each shift, and the provisions of paragraph (2) (ii) shall apply.
- (4) Where the heating surface of a steam boiler, or the aggregate heating surface of steam boilers connected to a common range is greater than two thousand square feet but not greater than five thousand square feet, a first grade driver shall be in charge of such boiler or boilers during each shift, and the provisions of paragraph (2) (ii) shall apply. In addition the owner shall employ a first or second grade visiting engineer who shall comply with the provisions of regulations 10, 11 and 12.
- (5) (i) Where the heating surface of a steam boiler or the aggregate heating surface of steam boilers connected to a common range, is greater than five thousand square feet but not greater than ten thousand square feet, a first or second grade engineer shall be in charge of such boiler or boilers; and
  - (ii) Where more than one steam boiler is connected to a common range or there is more than one associated steam engine, the engineer in charge shall be assisted during each shift by such first grade drivers as shall be sufficient to ensure that there shall not be more than two steam boilers or two steam engines or one combined steam boiler and steam engine to each driver.
- (6) (i) Where the heating surface of a steam boiler, or the aggregate heating surface of steam boilers connected to a common range, is greater than ten thousand square feet but not greater than twenty-five thousand square feet, a first grade engineer shall be in charge of such boiler or boilers; and
- (ii) Where more than one steam boiler is connected to a common range or there is more than one associated steam engine, the engineer in charge shall be assisted by a first or second grade engineer and during each shift by such first and second grade drivers as shall be sufficient to ensure that there shall not be more than two steam boilers or two steam engines or one combined steam boiler and steam engine to each driver.
- (7) (i) Where the heating surface of a steam boiler or the aggregate heating surface of steam boilers connected to a common range, is greater than twenty-five thousand square feet but not greater than fifty thousand square feet, a first grade engineer shall be in charge of such boiler or boilers; and
- (ii) Where more than one steam boiler is connected to a common range or there is more than one associated steam engine the engineer in charge shall be assisted by two first or second grade engineers and during each shift by such first and second grade drivers as shall be sufficient to ensure that there shall not be more than two steam boilers or two steam engines or one combined steam boiler and steam engine to each driver.
- (8) (i) Where the heating surface of a steam boiler, or the aggregate heating surface of steam boilers connected to a common range is greater than fifty thousand square feet, a first grade engineer shall be in charge of such boiler or boilers; and
- (ii) Where more than one steam boiler is connected to a common range or there is more than one associated steam engine, the engineer in charge shall be assisted during each shift by a first or second grade engineer together with such first and second grade

drivers as shall be sufficient to ensure that there shall not be more than two steam boilers or two steam engines or one combined steam boiler and steam engine to each driver.

Exemption.

(9) Notwithstanding the provisions of this regulation a driver shall not be required to be in charge of a steam boiler of the following types—

- ( i ) an electrode boiler;
- ( ii ) a steam tube oven;
- ( iii ) a steam tube hotplate;
- ( iv ) an autoclave;
- ( v ) any steam boiler in which the steam generated is retained inside the boiler.

以下略

マレーシア 工場・機械（資格証明—試験）規則（抜粋）

FACTORIES AND MACHINERY (CERTIFICATE OF COMPETENCY—  
EXAMINATIONS) REGULATIONS 1970

[1st February 1970]

Citation.

1. These Regulations may be cited as the Factories and Machinery (Certificate of Competency—Examinations) Regulations 1970.

Interpretation.

2. In these Regulations unless the context otherwise requires —  
"Chief Inspector", "Deputy Chief Inspector", "Senior Inspector" and "Inspector" mean the officers appointed under section 4(1) of the Act;  
"equivalent certificate of competency" means a certificate of competency which is considered by the Panel as equivalent to a corresponding certificate of competency issued under these Regulations;  
"examination" means an examination held by the Panel relating to the grant of a certificate of competency under these Regulations;  
"operational charge" means personal and direct supervision of machinery on shift or day work involving duties concerned with the normal operation and maintenance of such machinery;  
"Panel" means the Panel of Examiners appointed under section 30 of the Act;  
"qualifying workshop service" means the workshop service as prescribed in regulation 11.

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Examination.

5. (1) The Panel shall hold the following examinations:  
(a) First Grade Engineer (Steam);  
(b) First Grade Engineer (Internal Combustion Engines);  
(c) Second Grade Engineer (Steam);  
(d) Second Grade Engineer (Internal Combustion Engines);  
(e) Dredgemaster (Steam and Electric);  
(f) Dredgemaster (Internal Combustion Engines and Electric);  
(g) Dredgemaster (Electric);  
(h) First Class Engine Driver (Steam);  
(i) First Class Engine Driver (Internal Combustion Engines);  
(j) Second Class Engine Driver (Steam);  
(k) Second Class Engine Driver (Internal Combustion Engines).  
(2) Certificates of competency awarded to successful candidates of the aforementioned examinations shall be in the respective forms set out in the First Schedule. Such certificates of competency shall remain valid until suspended or cancelled under the provisions of the Act or these Regulations.  
(3) Every holder of a certificate of competency shall surrender such certificate to the Chief Inspector for cancellation upon the issue of a certificate of competency of a higher grade for the same category of machinery.