

TOPIC

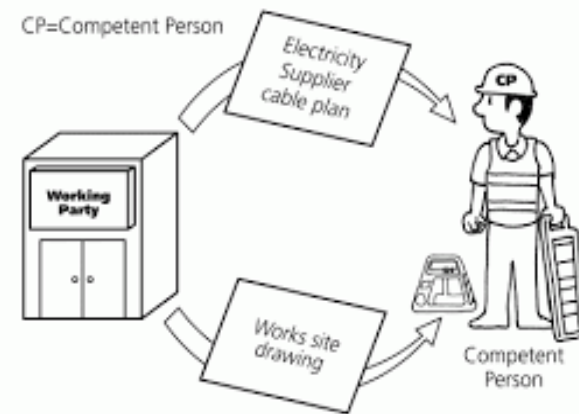
THE PROSPECT OF OCCUPATIONAL SAFETY HEALTH PRACTITIONER (COMPETENCIES) IN MALAYSIA

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DIRECTOR
INDUSTRIAL SAFETY DIVISION



SCOPE OF PRESENTATION

- Introduction
- Definitions
- Type of Competency
- Competent person duties
- Qualification for Registration
- Conclusions



WHY OSH COMPETENCY

To oversee and manage the services of competent firms and persons in compliance with applicable laws and regulations in the registration, monitoring and renewal of registration services.



THREE RELATED LAWS IN OSH COMPETENCY

- a. Occupational Safety and Health Act 1994 (OSHA) and Regulations made thereunder
- b. Factories and Machinery Act 1967 and Regulations made thereunder
- c. Supported by guidelines



OSH PRACTITIONER

“ A person who practice occupational safety and health”.

He may be or may be not a competent person.

DEFINITION OF COMPETENT PERSON

“A person approved by the Director General by qualification and experience to carry out specified duties and responsibilities” – OSHA 1994 MALAYSIA

“One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous or dangerous to employee, and who has authorization to take prompt corrective measures to eliminate them” – OSHA US



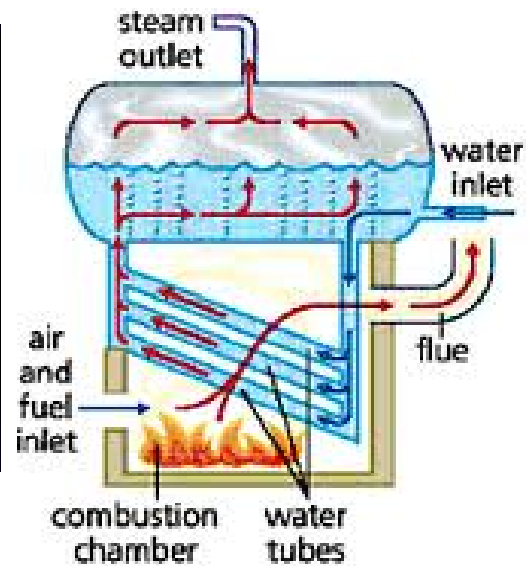
CATEGORIES OF COMPETENCY

☐ PERSONNEL

☐ ORGANIZATIONS

- Training centers - an organisation conducting the competency course which is approved by DOSH
- Approved firm - Means a firm approved by DOSH to do fabrication, erection, examination (inspection), service and maintenance of specified machinery





LIST OF COMPETENCY (SAFETY)

NO.	COMPETENCY	JOB DESCRIPTION
1.	Safety and Health Officer (SHO)	Ensure OSH laws compliance
2.	Major Hazard Competent Person	Prepare Safety Report
3.	Lift Competent Person	Inspection and maintenance of lift
4.	Steam Engineer	In charge boiler operation
5.	Internal Combustion Engine Engineer	In charge ICE operation
6.	Steam driver (Boiler man)	Operate boiler
7.	Internal Combustion Engine Driver	Operate ICE
8.	Site Safety Supervisor	Conduct Worksite inspection and OSH awareness
9.	Scaffolder	Erect, inspect and dismantle scaffold
10.	Crane operator	Operate crane
11.	Designated person (Hoisting machine)	Supervise erection, maintenance and dismantling of hoisting machine



LIST OF COMPETENCY (HEALTH)

NO.	SAFETY	JOB DESCRIPTION
1.	Occupational Health Doctor	Medical inspection and surveillance
2.	Hygiene Technician 1	Chemical monitoring
3.	Hygiene Technician 2	LEV inspection
4	Authorized Gas Tester	Gas measurement and testing in confined space
5.	IAQ Assessor	IAQ assessment
6	Entrance supervisor	Supervise working in confined space
7.	Chemical Assessor	Chemical health risk assessment



STATISTIC COMPETENCY PERSON (SAFETY)

NO.	COMPETENCY	NOS
1.	Safety and Health Officer (SHO)	5686
2.	Major Hazard Competent Person	23
3.	Lift Competent Person	268
4.	Steam Engineer	2519
5.	Internal Combustion Engine Engineer	355
6.	Steam driver (Boiler man)	2490
7.	Internal Combustion Engine Driver	1495
8.	Site Safety Supervisor	1890
9.	Scaffolder	5923
10.	Crane operator	3200
11.	Designated person (Hoisting machine)	83



STATISTIC COMPETENT PERSON (HEALTH)

NO.	COMPETENCY	NOS
1.	Occupational Health Doctor	752
2.	Hygiene Technician 1 AND 2	393
4.	Authorized Gas Tester	2265
5.	IAQ Assessor	30
6.	Chemical Assessor	358
7.	Entrance supervisor	2194



DUTIES AND RESPONSIBILITIES

- **Lift Competent Person**
- Be representative of the lift owner to prepare, sign and submit to the Chief Inspector, the First Schedule as required by Regulation 6(a) of Factories and Machinery Act 1967
- Be responsible for the safety and health of employees of the approved firm and other people during the installation, testing and first inspection of the lifts under his care
- Notify the Chief Inspector of any accident or incident involving the lift



DUTIES AND RESPONSIBILITIES

- **Steam engineer**
- **Internal combustion engine (ICE) engineer**
- **Boiler man**
- **ICE Driver**
- Section 29, Factories and Machinery Act 1970 and Person In charge Regulation 1970

Duties - ensure operation and maintenance of steam boiler, steam engine, ICE comply with the Act and regulations, ensure safe manner, advise employer etc



COMPETENT PERSON IN CONSTRUCTION SECTOR

- Safety and Health Officer
- Site Safety Supervisor
- Crane Operator /tower crane
- Scaffolding fitter / dismantler
- Person responsible for installing and maintaining tower cranes/ hoisting machines for passengers and goods.



DUTIES AND RESPONSIBILITIES

- **Safety and Health Officer**
- Section 29(2), Occupational Safety and Health Act, 1994
- Occupational Safety and Health (Safety and Health Officer) Regulations 1997
- to employ a competent person to act as a Safety and Health Officer at the place of work.
- Duties of SHO as stipulated in Regulation 18 (SHO) Regulations 1997



COMPETENCY Safety officer-Form

New Registration and renewal

- Website : <http://www.dosh.gov.my>
- GUIDELINES FOR REGISTRATION AND RENEWAL AS SAFETY AND HEALTH OFFICER (SHO)



DUTIES AND RESPONSIBILITIES

- **Site Safety Supervisor**

- Regulation 25, Factories and Machinery (Building Operations and Works of Engineering Construction) Regulations 1986
- To appoint a part time Site Safety Supervisor who shall spend at least fifteen hours per week exclusively on safety supervision and promoting the safe conduct of work within the site.
- Duties of SSS as quote in Regulation 25(4), Factories and Machinery (Building Operations and Works of Engineering Construction) Regulations 1986



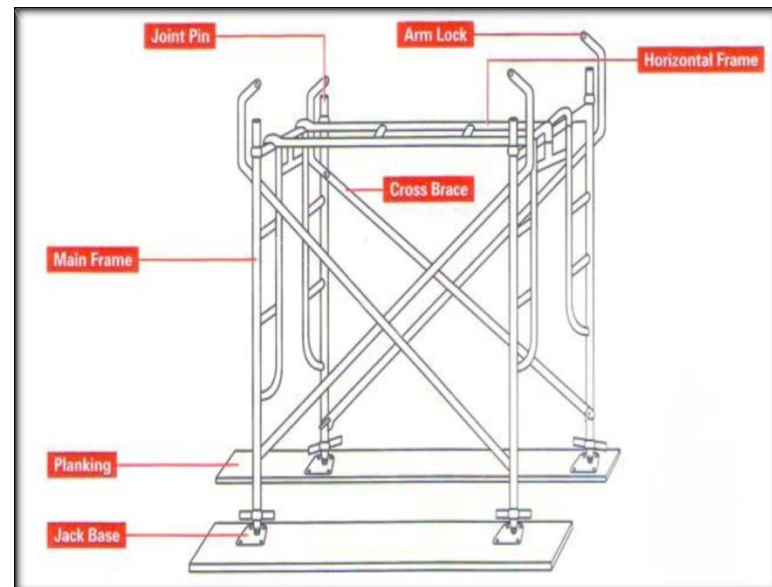
DUTIES AND RESPONSIBILITIES

- **Scaffolder**

- Regulation 74(1), Factories and Machinery (Building Operations and Works of Engineering Construction) Regulations 1986
- no scaffold shall be erected or be substantially altered or be dismantled accept under the direct supervision of a designated person.
- Ensure installation according to design, sound material strength and safe for use



Scaffolder



Frame scaffolding





No. Siri: S 00345

**JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN
MALAYSIA**

Sijil Pendaftaran Pengendali Perancah

Adalah dengan ini disahkan bahawa
B.SARAVANAN A/L P.BALAKRISHNAN
770320-10-5401
telah didaftarkan sebagai pengendali perancah kelas

FRAME/TUBULAR/MODULAR
[ASAS * BERTENGAHAN * BERTINGGAL]

dengan Jabatan ini dan layak untuk menjadi orang yang bertanggungjawab
dan menjalankan kerja-kerja ke atas perancah mengikut kategori tersebut



Tempoh sah 22/10/2010 hingga 21/10/2012
(Sila lihat di bawah untuk tempoh sah pendaftaran)
No. Pendaftaran: SL/10/PP/01/55
Tarikh: 22/10/2010

IR HAJI AMIR BIN HAJI YAHYA P.M.P

Pengarah
Jabatan Keselamatan dan Kesihatan Pekerjaan
Negeri: SELANGOR

PEMBAHARUAN TEMPOH SAH PENDAFTARAN

Hingga	Hingga	Hingga	Hingga	Hingga
Pengarah Jabatan Keselamatan dan Kesihatan Pekerjaan	Pengarah Jabatan Keselamatan dan Kesihatan Pekerjaan	Pengarah Jabatan Keselamatan dan Kesihatan Pekerjaan	Pengarah Jabatan Keselamatan dan Kesihatan Pekerjaan	Pengarah Jabatan Keselamatan dan Kesihatan Pekerjaan

* Sila lihat sebelah untuk disambung ke sini



HSE RESOURCES
SDN. BHD. (564407-P)
(HIGH SPIRIT ENGINEERING)

CERTIFICATE OF COMPETENCY

THIS IS TO CERTIFY THAT

B. SARAVANAN A/L P.BALAKRISHNAN
770320-10-5401

HAS PASSED COMPETENCY ASSESSMENT STANDARD
ACCORDING TO MALAYSIA (MS) AND BRITISH STANDARD (BS)
FOR
BASIC SCAFFOLDING COMPETENCY TRAINING
FOR FRAME, TUBULAR, & MODULAR TYPES

WHICH IS HELD ON

14 JUNE 2010 ~ 23 JUNE 2010
HRSB APPROVED TRAINING CENTRE



Mohd Faizal Mohd Hassim
Training Director

Mohd Zainudin B. Zainal
Certified Trainer

CERTIFICATE NO.
HSE/RSC 077-10

DOSH CERTIFIED TRAINING CENTRE
REF : JKCP IS 127/682/7-21(23)

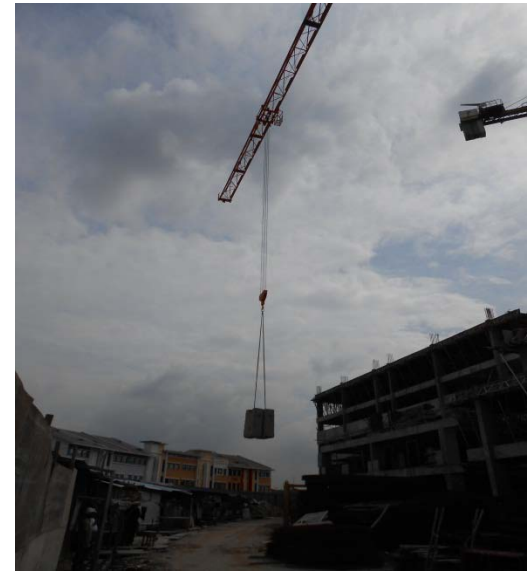
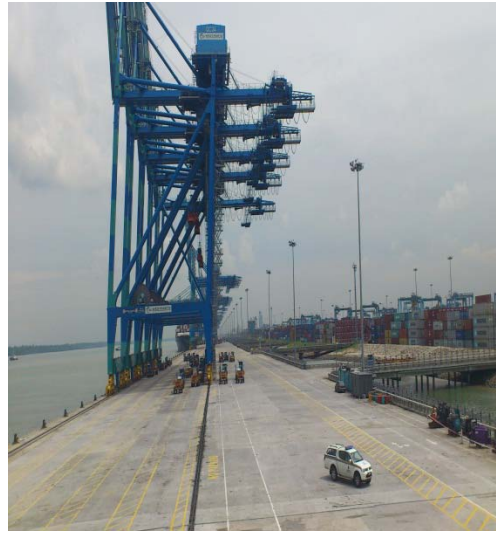
DOSH APPROVED FOR CEP
REF : JKCP IS 127/438/5/(53)



DUTIES AND RESPONSIBILITIES

- **Crane operator**
- Ensure safe operation of crane





DUTIES AND RESPONSIBILITIES

- **Competent Firm for Manufacturing and repairing Boiler and Unfired Pressure Vessel**
- Fabricate boiler or UPV according to recognized standard and good quality
- To arrange required testing
- Must appoint technical person to ensure quality and safety
 - Qualification and working experience
 - Premise to be registered with department



DUTIES AND RESPONSIBILITIES

- **Competent Firm for Lift**
- Install and maintain lift and escalator
- Must appoint a lift competent person who is responsible for design, inspection and maintenance
 - Qualification and working experience
 - Passed the examination



DUTIES AND RESPONSIBILITIES

- **Competent Firm for Hoisting Machine**
- Erecting, Maintenance and Dismantling (EMD) of tower crane/ hoisting machine
- Must appoint a designated person who is responsible for EMD
 - Qualification and working experience
 - Hirarc/JSA and working at height
 - Passed the examination
 - Premise to be registered with department



DUTIES AND RESPONSIBILITIES

- Chemical Assessor
- Carry out Chemical health risk assessment
- ✓ Regulations-Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) regulations 2000
- "Carry out chemical health risk assessment
- Employers are not permitted to use any chemicals hazardous to health (CHH) unless an assessment of the risks has been conducted



Assessor

- **Qualifications**

- Option 1:** Certified Industrial Hygienist

- Has passed CHRA (Part II) examination conducted by NIOSH
 - Option 2:** Degree / Postgraduate Diploma in Occupational Safety & Health, Occupational Safety, Occupational Health or Industrial / Occupational Hygiene
 - Has attended the course for CHRA
 - Has passed CHRA (Part II) examination conducted by NIOSH
 - Has a minimum of 1 year working experience in **Occupational Safety & Health**



DUTIES AND RESPONSIBILITIES

Hygiene Technician 1

- Carry out chemical exposure monitoring
- **Qualifications**
 - Option 1:** Certified Industrial Hygienist
- Has passed Hygiene Technician 1 (Part II) examination conducted by NIOSH
- **Option 2:** Minimum Postgraduate Diploma in Occupational / Industrial Hygiene
- Has passed Hygiene Technician 1 examination conducted by NIOSH



DUTIES AND RESPONSIBILITIES

Hygiene Technician 2

- To inspect condition of Local Exhaust Ventilation
- **Qualifications**
- Option 1:
 - Certified Industrial Hygienist
 - Has passed Hygiene Technician 2 (Part II) examination conducted by NIOSH
- Option 2:
 - Minimum Postgraduate Diploma in Occupational / Industrial Hygiene
 - Has passed Hygiene Technician 2 examination conducted by NIOSH
- Option 3:
 - Diploma in Engineering, or Natural & Applied Science
 - Has attended the course for Hygiene Technician 2
 - Has passed Hygiene Technician 2 examination conducted by NIOSH
 - Has a minimum of 1 year working experience in Occupational Safety & Health



DUTIES AND RESPONSIBILITIES

Noise Competent Person

- "Carry out noise exposure monitoring"
- Regulations-Factories And Machinery (Noise Exposure Regulations 1989)

- **Qualifications**

Option 1: Certified Industrial Hygienist

- Has passed Noise Competent Person (Part II) examination conducted by NIOSH
- **Option 2:** Minimum Diploma in Occupational / Industrial Hygiene
- Has passed Noise Competent Person examination conducted by NIOSH
- **Option 3:** Minimum Diploma in Acoustic Engineering
- Has passed Noise Competent Person examination conducted by NIOSH



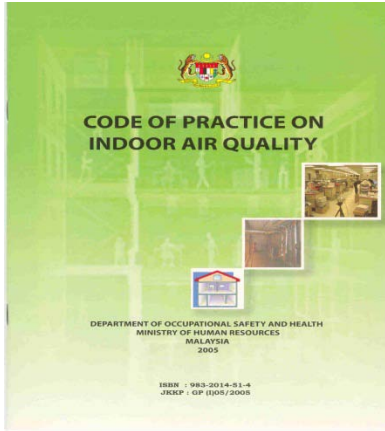


DUTIES AND RESPONSIBILITIES

Indoor Air Quality Assessor

- Carry out assessments of indoor air quality.
- Example air movement (0.15-0.50 m/s), CO (10 ppm),
- CO₂ (C1000), Temp (23-26 C)
- **Qualifications**
 - Option 1:** A registered Assessor
 - Has attended the course for IAQ Assessment
 - Has passed IAQ examination conducted by NIOSH
 - **Option 2:** A registered HT1
 - Has attended the course for IAQ Assessment
 - Has passed IAQ examination conducted by NIOSH
 - **Option 3:** Minimum *Diploma in Pure / Applied Science*
 - Has attended the course for IAQ Assessment
 - Has passed IAQ examination conducted by NIOSH
 - Has a minimum of 1 year working experience in Occupational Hygiene





IAQ Monitor



Respirable Dust

Anemometer Hot Wire



TVOC Detector



DUTIES AND RESPONSIBILITIES

OCCUPATIONAL HEALTH DOCTOR

- ✓ Register and renew the certificates of Occupational Health Doctors (OHD) under the Regulations of the Use and Standards of Chemicals Hazardous to Health 2000 (USECHH 2000).
- ✓ Monitoring health and medical surveillance activities of the Occupational Health Doctors (OHD).
- ✓ Carry out medical surveillance and health surveillance for workers exposed to chemicals
- ✓ Carry out health surveillance for employees who work in confined spaces to ensure the health of workers involved is in the optimum condition both physically and mentally.



REGISTRATION OF COMPETENT PERSON

Attend
courses

Pass
Evaluation
process

- Examination
- Interview
- Practical

Gain
working
experience

Registration



MEASURES TO ENSURE QUALITY OF COMPETENT PERSON

- Process renewal applications
- Monitor performances of Competent Person through their assessment or monitoring reports, interview conducted at DOSH's office
- Monitor performances through observation while performing work on field
- Spot check
- Take action on complaints
- Dialogue



REGISTRATION OF COMPETENT ORGANISATION (TRAINING PROVIDER)

Requirements;

- Qualified trainers
- Training modules fulfilled standard
- Quality control system
- Adequate training facilities



REGISTRATION OF COMPETENT ORGANISATION (COMPETENT FIRM)

Requirement;

- Enough qualified technical personnel (key technical person, designer, QC, fabrication, OSH)
- Enough workforce (welder, fitter, supervisor etc)
- Adequate facilities (premise, machines and tools, equipment for QC)



MEASURES TO ENSURE QUALITY OF COMPETENT ORGANIZATION

- Straight requirements
- Auditing every 3 years
- Interview key personnel
- Dialogue



CONCLUSION

- Knowledgeable and skillful personnel and firm is important to ensure safety and health.
- Qualification required and registration process must be improved from time to time to ensure quality of competent person or firm and to deliver good service to people
- Performance of competent person and firm must be monitored and evaluated by department



THANK YOU

FOR YOUR ATTENTION

