

# CHALLENGES OF HYGIENE TECHNICIAN 2 (DOSH POINT OF VIEW)

DEPARTMENT OF OCCUPATIONAL SAFETY  
AND HEALTH MALAYSIA

26 SEPTEMBER 2019

## Front Page

# Highlight



- Date of Engineering Control Equipment/ LEV installed
- Name of Professional Engineer (if any)
- Type of Testing : Baseline or Periodic
- Date of Testing.





- **Report Reference No.**

**FORMAT NOMBOR RUJUKAN LAPORAN CHRA, PEMONITORAN PENDEDAHAN DAN  
PENGUJIAN KAWALAN KEJURUTERAAN**

NO. RUJUKAN LAPORAN : **HQ/17/ASS/00/00002** – **2017/001**

**A**                      **B**      **C**

Petunjuk :-

- A** = Nombor pendaftaran Pengapit CHRA/Juruteknik Higien I/Juruteknik Higien II dengan Jabatan Keselamatan Kesihatan dan Pekerjaan
- B** = Tahun penaksiran/pemonitoran/pengujian dijalankan
- C** = Nombor turutan penaksiran/pemonitoran/pengujian yang dilaksanakan pada tahun berkenaan

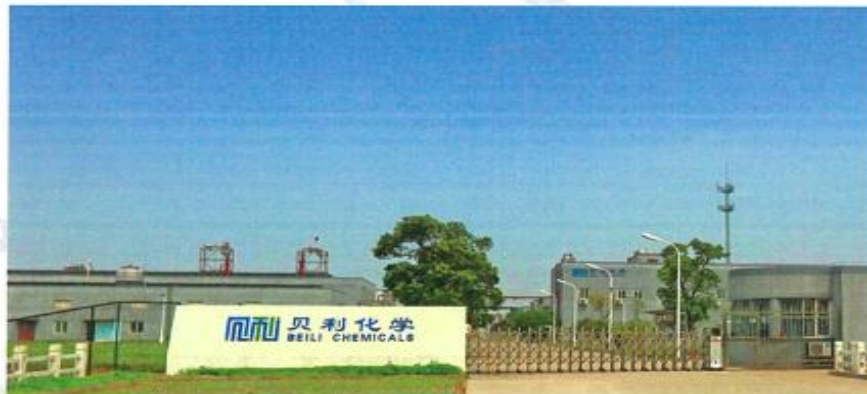


**ABC SDN BHD**  
**LOT 123, JALAN 123, 12345 BENTONG, PAHANG**  
**TEL : 06-12345678. FAX : 06-9876543**

**DOSH REG. NO : PH TGK 123**

**ENGINEERING CONTROL EXAMINATION REPORT**  
**(REF. NO : HQ/17/JHII/00/00005 – 2017 / 008)**

|                             |   |
|-----------------------------|---|
| <b>HYGIENE TECH'S NAME</b>  | <b>: MR ARUMUGAM</b>                      |
| <b>DOSH REGISTRATION</b>    | <b>: HQ/17/JHII/00/00005</b>              |
| <b>DATE OF EXAMINATION</b>  | <b>: 21 FEB 2017</b>                      |
| <b>ASSESSOR'S NAME</b>      | <b>: AYUB BIN KARIM</b>                   |
| <b>DOSH REGISTRATION</b>    | <b>: HQ/17/ASS/00/00002</b>               |
| <b>CHRA REPORT REF. NO.</b> | <b>: HQ/17/ASS/00/00002 – 2017 / 005)</b> |
| <b>DATE OF ASSESSMENT</b>   | <b>: 02 FEB 2017</b>                      |



Me

# Highlight



## Introduction

- List of equipment used during the testing and the serial number of the equipment. Include photo of the equipment (option).
- Process description should be specific and state the chemicals used during the process.



Me

# Highlight



## Methodology

- Should take the actual numbers of measurement traverse point
  - e.g. for ducting diameter more than 6 inch must take 10 reading
- Measure ducting at two point  $90^0$ ;
  - Must specify the vertical & horizontal reading
- Testing shall be performed by a competent person it self.
- Lack of Stack observation (position)



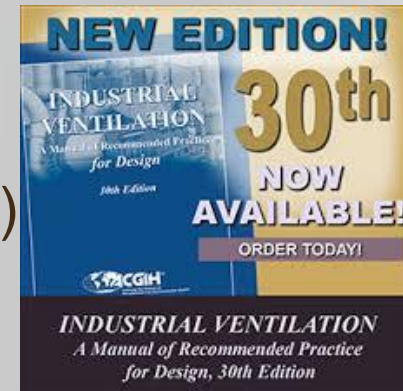
Me

# Highlight



## Methodology

- Fume Hood : Face velocity should be taken at two sash opening
  - Measure at current working sash opening
  - If result did not meet recommended value ( $\pm 20\%$ )
    - Find the maximum allowable sash opening
- Exterior Hood : Measure capture velocity
  - Measure at current working distance (between source & hood)
  - If result did not meet recommended value ( $\pm 20\%$ )
    - Find the maximum allowable working distance (effective capture distance)
    - New working distance should be suggested for operation





Me

# Highlight



## Results & Finding

- ACGIH recommended value
  - Must be stated (in range) for face/capture velocity and transport velocity
  - Which edition?
  - Range selected too big (e.g. 100 – 500 fpm for face velocity)
- Not specify the type of hood in each process area 
- Not specify the size of ducting 






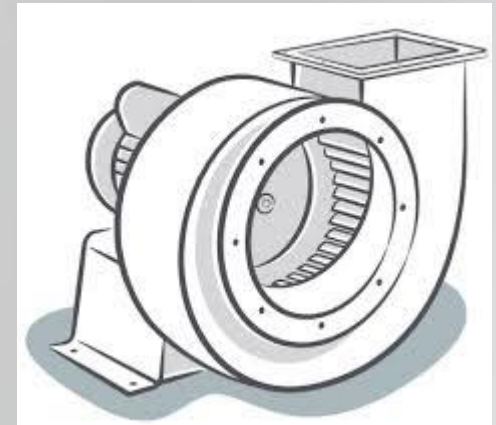
Me

# Highlight



## Results & Finding

- No result for visual / physical inspection 
- Positive value for fan inlet static pressure, negative value for fan outlet ? 
- No comparison 
  - Design vs Testing
  - Testing vs Baseline/Previous Result
- Data & Calculation
  - Not complete & difficult to analyze performance
  - Scattered & please follow guideline for report writing.



Me

# Highlight



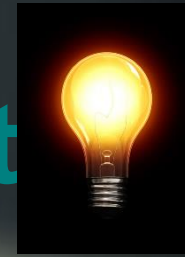
## Discussion & Recommendation

- Please specify & explain the problem faced during testing
  - Bend duct before/after fan & air cleaner (duct or connector/joint?)
  - Limitation of sampling point readiness?
  - No fan measurement; not accessible?
- Air cleaner
  - Not install. Justify the necessity/ unnessecity.
  - Pressure drop measured acceptable?



Me

# Highlight



## Discussion & Recommendation

- Recommendation should be more specific, related to the testing result, not too general or copy from the regulation
  - E.g. Recommend "Lower sash to the optimum height". But the optimum height is not specified & the testing result at the optimum height is not available.
  - Terms "fairly satisfactory" must be explained details.
- Must also recommend for P.E. checking and approval if the existing system is not approved by P.E.

Me

## Discussion & Recommendation

## Highlight



- Result failed (not meet recommended value)
  - Ability to troubleshoot / identify the root cause?
  - Ability to recommend specific action for improvement?
- Inconsistency/typo error in report due to copy and paste
- Ability to comments or recommend on the design?







Me

# Highlight



## Appendices

- Schematic drawing plan should be include
  - Location / distance of measurement not pointed 
- Must include process flow chart
- Copy of HT II Registration certificate not attached 
- Some testing data & calculation not available
- Form A not attached / filled
- Calibration certificate
  - Not attached
  - Not valid during monitoring
  - Monitoring done with equipment cert “out of tolerance”



# FORM A



**Borang A**

Date : .....

Workplace : .....

.....

.....

Contact Person : .....

**Ref: REPORT ON INSPECTION & TESTING OF ENGINEERING CONTROL EQUIPMENT**

This is to certify that inspection and testing of engineering control equipment for the above premise has been conducted and explained to the Safety and Health Committee members on the .....

2. Any person appointed by the employer will furnish the employer with the report of inspection & testing within one (1) month of the completion of the assessment.

3. The employer has to take action to control exposure if the inspection and testing report indicates significant risk within one (1) month after receiving the inspection & testing report.

4. The employer will reply to local DOOH state office on the action taken within 30 days.

.....

Signature of Hygiene Technician 2  
DOOH Registration No. : .....

Date of Inspection / Examination / Testing : .....

Date of Completion : .....

Inspection & Testing Report Received by: .....

Name : .....

Designation : .....

Date of receipt report : .....

Signature : .....

Signature

Me

# Ethiques

## Highlight



- HT II not in the monitoring area/workplace during monitoring
- Monitoring and report conducted by assistant
- Report not submitted to employer 1 month after completion of monitoring
- Report not presented to employer



# MYKKP



The screenshot displays the MYKKP website in a web browser. The browser's address bar shows the URL `mykkp.dosh.gov.my`. The website's header includes the MYKKP logo and a navigation menu with the following items: **PENGENALAN**, **LOG MASUK**, **PENDAFTARAN**, **SEMAKAN OYK**, **SEMAKAN FYK**, **HUBUNGI KAMI**, and **PANDUAN**.

The main content area features a large banner for **Pembayaran Atas Talian** (Online Payment). On the left side of the banner is an image of a hand typing on a laptop keyboard, with a credit card being held nearby. Below the image are logos for **MEPS FPX**, **MasterCard**, and **VISA**. On the right side of the banner, the title **Pembayaran Atas Talian** is displayed in large white text, followed by a list of payment services:

- Bayaran pemeriksaan kilang dan jentera
- Bayaran ujian hidrostatik
- Bayaran proses Pegawai Keselamatan dan Kesihatan, jurutera dan drebar (enjin/stim)

The bottom of the screenshot shows a Windows taskbar with various application icons and a system tray on the right indicating the time as 8:55 AM on 2/11/2017.



\*Sila klik pada senarai nama dibawah untuk melihat profail lebih terperinci

Selected Filter:

Quick Search:


| NAMA                             | NO DAFTAR         | TARIKH LULUS | TARIKH TAMAT | NAMA ORGANISASI                  | NEGERI |
|----------------------------------|-------------------|--------------|--------------|----------------------------------|--------|
| ANUAR BIN MOHD. MOKHTAR          | HQ/16/JHII/00/219 | 25/11/2016   | 24/11/2019   |                                  |        |
| ABDUL HAFIDZ BIN AHMAD           | HQ/16/JHII/00/215 | 25/11/2016   | 24/11/2019   | ABDUL HAFIDZ BIN AHMAD           | PERAK  |
| SYED ABDUL HAMID BIN SYED HASSAN | HQ/16/JHII/00/218 | 25/11/2016   | 24/11/2019   | SYED ABDUL HAMID BIN SYED HAS... | JOHOR  |
| SULAIMAN R.RAHMAN                | HQ/16/JHII/00/217 | 25/11/2016   | 24/11/2019   |                                  |        |
| MOHD PUZI BIN SUDIN              | HQ/16/JHII/00/216 | 25/11/2016   | 24/11/2019   | MOHD PUZI BIN SUDIN              | JOHOR  |
| AHMAD FAHIM BIN MAHMOUD          | HQ/16/JHII/00/214 | 00/11/2016   | 00/11/2019   |                                  |        |
|                                  |                   | 00/11/2016   | 07/11/2019   |                                  |        |
|                                  |                   | 03/10/2016   | 27/10/2019   |                                  |        |
|                                  |                   | 01/10/2016   | 06/10/2019   |                                  |        |
|                                  | HQ/16/JHII/00/164 | 2016-09-23   | 2019-09-22   |                                  |        |


Please update your  
profile in MYKKP...!!


Please update your profile in MYKKP....!!

\*Sila klik pada senarai nama dibawah untuk melihat profail lebih terperinci

Selected Filter: 



Quick Search: 



| NAMA                      | NO DAFTAR        | TARIKH LULUS | TARIKH TAMAT | NAMA ORGANISASI                 | NEGERI   |
|---------------------------|------------------|--------------|--------------|---------------------------------|----------|
| YONG LIEW                 | HQ/02/PEB/00/42  | 03/07/2002   | 2005-08-03   |                                 |          |
| DR AHMAD MANSOR BIN OSIR  | HQ/14/PEB/00/128 | 20/03/2014   | 19/03/2017   | KLINIK MANSOR SDN BHD           | SABAH    |
| ARAZMI BIN JUHARI         | HQ/94/PEB/00/3   | 17/06/2004   | 16/06/2007   |                                 |          |
| MOHAMED B. OSMAN          | HQ/94/PEB/00/7   | 00/01/1994   | 00/02/1997   |                                 |          |
| ANUAR OMAR                | HQ/08/PEB/00/83  | 2008-08-01   | 01/07/2011   |                                 |          |
| SULAIMAN BIN KABOLANI     | HQ/07/PEB/00/72  | 07/07/2010   | 07/06/2013   |                                 |          |
| ARIFFIN BIN BAKAR         | HQ/04/PEB/00/53  | 30/03/2004   | 31/03/2007   |                                 |          |
| AZRI BIN MOHAMED ALI      | HQ/11/PEB/00/116 | 04/02/2014   | 02/03/2017   | S.E.H. (SHAH ALAM) SDN. BHD.    | SELANGOR |
| ZULKIFLI BIN HARUN        | HQ/04/PEB/00/54  | 29/03/2004   | 30/03/2007   | PETRONAS REFINERY & PETROCHE... | JOHOR    |
| COLIN ALLAN FU FOOK LEONG | HQ/01/PEB/00/39  | 18/04/2008   | 17/04/2011   |                                 |          |



# Any Questions?



## Thank you for your attention...