

CURRICULUM VITAE



| A. BUTIR-BUTIR PERIBADI (Personal Details) | | | |
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| Nama Penuh (Full Name) | Mohd Rafee Bin Baharudin | | Gelaran (Title): Dr. |
| No. MyKad / No. Pasport (Mykad No. / Passport No.) | Warganegara (Citizenship) Malaysian | Bangsa (Race) Malay | Jantina (Gender) Male |
| Jawatan (Designation) | Senior Lecturer / Director of OSH UPM | Tarikh Lahir (Date of Birth) | 18 June 1970 |

| Alamat Semasa (Current Address) | Jabatan/Fakulti (Department/Faculty) | E-mel dan URL (E-mail Address and URL) |
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| Occupational Safety and Health Management Office, Universiti Putra Malaysia, 43400 Serdang, Selangor Tel: 017-7701806 | Department of Community Health Faculty of Medicine & Health Sciences Universiti Putra Malaysia 43400 UPM Serdang, Selangor, Malaysia Tel: +603-8947 2424 Fax: +603-8945 0151 | E-mail: mohdrafee@medic.upm.edu.my mohdrafeebaharudin@gmail.com |

| B. KELAYAKAN AKADEMIK (Academic Qualification) | | | |
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| Nama Sijil / Kelayakan (Certificate / Qualification obtained) | Nama Sekolah/ Institusi (Name of School / Institution) | Tahun (Year obtained) | Bidang pengkhusususan (Area of Specialization) |
| Diploma in Agriculture | UPM | 1991 | |
| Diploma in Public Health Inspector | Ministry of Health, Malaysia | 1994 | |
| Certificate in Food Sanitation and Hygiene | MAEH | 1996 | |
| Certificate in Safety and Health Officer | NIOSH | 1997 | |
| Bachelor in Occupational and Environmental Health | UPM | 2001 | |
| Master in Environmental Science | UPM | 2003 | |
| PhD (Env. Science : Env. & Occ. Risk Assessment) | UKM | 2009 | |
| Certificate in Radiation Protection Officer | AELB | 2011 | |
| Certificate in Accident Investigation | UK | 2012 | |

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| Certificate in IAQ Assessor | NIOSH | 2014 | |
| Certificate in Measurement of Hazardous Substances | BOHS | 2014 | |
| Certificate in Control of Hazardous Substances | BOHS | 2014 | |
| Certificate in Noise Measurement and Control | BOHS | 2014 | |

C. KEMAHIRAN BAHASA (*Language Proficiency*)

| Bahasa / <i>Language</i> | Lemah <i>Poor (1)</i> | Sederhana <i>Moderate (2)</i> | Baik <i>Good (3)</i> | Amat Baik <i>Very good (4)</i> | Cemerlang <i>Excellent (5)</i> |
|--------------------------|--------------------------|----------------------------------|-------------------------|-----------------------------------|-----------------------------------|
| English | | | | √ | |
| Bahasa Melayu | | | | | √ |

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN

(*Scientific experience and Specialization*)

Professional Services

1. International Committee on ISO/PC 283 Occupational Health and Safety Management System (London)
2. Assessor for the Malaysian Qualification Agency (MQA) in OSH
3. National Technical Committee members for the development of Malaysian Standard (Telecommunications and Safety Signages)

Professional Membership

1. Committee Member of Malaysian Industrial Safety and Health association (MiSHA)
2. Voting membership of Chartered Institute of Environmental Health London (MCIEH) (Reg No. 205997)
3. Technical Advisory Committee of Safety and Health - UPM
4. Technical Committee of Safety and Health – Majlis Latihan Vokasional Kebangsaan (MLVK)
5. Registered Safety and Health Officer – DOSH
6. Member of the Malaysian Association of Environmental Health (MAEH) [Reg. No 824]
7. Member of the Malaysian Occupational Safety and Health Professional (MOSPFA)

Teaching Experience

1. OSH legislation
2. Assessment of exposure and health risk
3. Industrial hygiene
4. Research statistical analysis
5. OSH management system
6. Community health program management
7. Risk management
8. Environmental health
9. Chemical safety
10. Atomic Absorption Spectrophotometry (AAS), UPLC, High Performance Liquid Chromatography (HPLC), Gas Chromatography (GC) for chemicals detection and others industrial hygiene equipment.

Supervision of Student (Bachelor Degree)

1. Blood lead concentration and working memory ability among primary school children in urban and rural area Melaka.
2. Level of aluminium concentration in blood and memory loss.
3. The exposure to organophosphate pesticide and respiratory problems among foggers.

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| 4. Determination of hair mercury concentrations and working memory ability among school children. |
| 5. Ergonomic risk factors study on musculoskeletal disorders among construction workers. |
| 6. Zinc concentration in seafood and health risk assessment among fishing village community. |
| 7. Urinary cadmium concentration among seafood consumer in Melaka. |
| 8. Risk assessment of low back pain among nurses in government hospital. |
| 9. Aluminium concentration in drinking water and the assessment of health risks in Malaysia. |
| 10. Carpal tunnel syndrome among computer office workers in UPM. |
| 11. Quantified risk assessment for fall from height in construction sites. |
| 12. Dermal exposure assessment of metal working fluid aerosol on workers' health. |
| Supervision of Student (Master Degree) |
| 1. Health risk assessment on contaminated seafood with formaldehyde. |
| 2. Occupational Safety and Management System in Malaysian Navy. |
| 3. Prevalence on MSD and its associated risk factors among printing workers in manufacturing industries. |
| 4. Health Risk Assessment of occupational exposure to metal working fluids. |
| Supervision of Student (PhD Degree) |
| 1. Development of monitoring tools for OSH Critical Success Factor in natural gas pipeline installation workers in Peninsular Malaysia. |
| 2. Environmental impact assessment and risk analysis in a municipality in Malaysia. |
| 3. Industrial and commuting accident cost analysis in Malaysia. |
| 4. IAQ and health effects |
| 5. Development of risk assessment matrix in construction industry. |
| 6. Development of OSH indicators in School |
| Post Graduates Proposal Judges |
| 1. Caring for disabled children at the community rehabilitation centers in Selangor : What are the perceived unmet. |
| 2. MSD among agricultural workers by OCRA method. |
| 3. Predicting cardiovascular by hs c-reactive protein among patients undergoing coronary angiographic in Marshad Iran. |
| 4. The prevalence of occupational hand injuries and its risk factors at Serdang Hospital. |
| 5. Lifestyle intervention and modification in relation to environment and occupational risk factors among breast cancer survivor. |
| External Examiner (Post Graduates) |
| 1. Isocyanides in urine and respiratory problems among SMI welders.(UKM) |
| 2. Occupational respiratory difficulty among workers exposed to flour and flour products. (UKM) |
| 3. Blood lead concentration and its association with neurobehavioral changes. (UKM) |
| 4. Accident cost analysis in automobile industry (UiTM) |
| External Examiner (NIOSH Malaysia) |
| 1. Safety and Health Officer Competency Examination. |
| 2. OSH Auditor Competency Examination. |
| 3. Oil & Gas Safety Passport |
| 4. Construction Safety passport |
| 5. EDOSH NIOSH-OUM |

| E. PEKERJAAN (Employment) | | | | |
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| Majikan / Employer | Jawatan / Designation | Jabatan / Department | Tarikh lantikan / Start Date | Tarikh tamat / Date Ended |
| OSH UPM | Director | | 2011 | date |
| Faculty of Medicine and Health Sciences, UPM | Lecturer | Community Health Department | 2004 | date |
| NIOSH | Senior Training Officer | | 2004 | 2009 |
| Ministry of Health Malaysia | Health Inspector | Public Health Institute | 2001 | 2002 |
| Ministry of Health Malaysia | Public Health Inspector | Petaling District Health Office, Port Kelang Health Office, Hulu Langat District Health Office | 1994 | 2001 |

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| Guthrie Berhad | Assistant Manager | | 1991 | 1992 |
| Kamal & Kamal Pest Control | Pest Control Technician | | 1987 | 1988 |

F. ANUGERAH DAN HADIAH (Honours and Awards)

| Name of awards | Title | Award Authority | Award Type | Year |
|------------------------------|-------|-----------------|------------|------|
| Excellent Staff Award UPM | | UPM | | 2007 |

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)

| Journal/Proceeding/Abstract | |
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| | <ol style="list-style-type: none"> Mohd Rafee B.B. 2014. OSH Data Analysis. Proceeding COSH 2014, 21-22 August 2014. Kuala Lumpur. Mohd Rafee B.B. 2012. Impact of Managing OSH Risk : It's relation to Sustainable development. Proceeding NaSOSH Seminar 2012, 21-22 May 2012. Kangar. Mohd Rafee B.B. 2012. Cost Estimation of Commuting Accidents. Proceeding International Accident Prevention Seminar 2012, 2-3 Oct 2012. Kuala Lumpur. Subramaniam, K., Mukherjee, T.K., & Mohd Rafee, B.B. 2011. Quantitative Assessment of Environmental Hazards to Receptor Populations. Proceeding Regional Conference on Health Sciences and Nursing 2011, 22-24 Feb 2011. Shah Alam. Mohd Rafee B.B. 2011. Safety and Health or Business. Proceeding 2nd Borneo Occupational Safety and Health Conference 2011 , 4-6 Dec 2011, Kuching. Mohd Rafee B.B. 2011. The Importance of Risk Assessment in Preparing ERP for SME. Proceeding 14th National Occupational Safety and Health Conference 2011, 17-19 July 2011. Kuala Lumpur. Lijalila, A.M. & Mohd Rafee B.B. 2010. Determination of hair mercury concentrations and working memory abilities among primary school children in fishing villages, Melaka. Proceeding 3rd National Industrial Hygiene Conference 2010, 5-6 May 2010, Kuala Lumpur.39. Hanifa Begum M.G. & Mohd Rafee B.B. 2010. Blood aluminium concentration and memory ability. Proceeding 2nd National Conference on Environmental and Health 2010, 17-18 March 2010, Kota Bharu, Kelantan. 324-330. Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O. 2009. Pesticide risk assessment. Proceeding Risk Management Seminar for Health and Safety 2009, 26-28 March, 2009, Hongo, Bunkyoku, Tokyo, Japan. Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O. 2009. Pesticide in the environment Do our farmers inhale the safe air? Proceeding 1st International Seminar on Science and Technology, 24 – 25 January 2009, Jogjakarta, Indonesia. 53-54. Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O. 2008. Penilaian pendedahan pestisid (2,4-D dan paraquat) ke atas kulit di kalangan operator racun makhluk perosak di Daerah Kerian, Perak. Prosiding Kolokium Siswazah ke-8 UKM, 1– 2 Julai 2008. Bangi. 421- 424. Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O. 2008. Assessment of pesticide inhalation exposure among pesticide operators in the paddy growing areas in Kerian, Perak. Proceeding Science and Technology Enhancement Towards Research University Seminar UKM-UNRI, 19 – 20 August 2008, Pekan Baru, Indonesia. 59-63. Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O. 2008. Comparing inhalation and skin exposure of selected herbicides among pesticide sprayers. Proceeding International Conference on the 7th Plant Protection Technology in the Tropics, 27– 29 August 2008, Kuala Lumpur. 31-33. Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O. 2008. Gamma-Glutamyltransferase (GGT) and Alanine-Transferase (ALT) as a bio-indicator of liver enzymes abnormalities due to pesticides exposure among paddy farmers. Proceeding International Conference on the 10th Malaysian Society of Applied Biology, 6 – 8 November 2008, Kuching, Sarawak. 418-421. Mohd Rafee B.B, Ismail BS, Norela S. and Fadzil O. 2007. Occupational exposure assessment and health effects among pesticides operators in the IADP Kerian. Malaysian Journal of Public Health Medicine. Vol 7 (Supp.3). 29-30. |

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| | <p>16. Mohd Rafee BB. 2006. Environmental influences and the incidence of dengue. Asia Pacific Public Health Conference. Kuala Lumpur.</p> <p>17. Mohd Rafee BB. 2003. OSH and the Environment. Asia Pacific Environmental Health Conference. Kuala Lumpur.</p> <p>18. Mohd Rafee BB. 2002. Blood aluminium and its relationship with memory impairment among the elderly. National Conference on Occupational Safety and Health (COSH). Kuala Lumpur.</p> |
| <p><i>Other publications</i></p> | <ul style="list-style-type: none"> • Malaysian Standard, (2014). Safety and health signage used in the workplace – Specification. MS 2558:2014, ICS: 13.100 • Malaysian Standard (2014). Good practices in implementing commuting safety management. SIRIM 4:2014. ICS: 03.220.20; 13.100 • Mohd Rafee, B.B. (2013). Practical guide to OSH risk management. Understanding, evaluating and implementing HIRARC at workplace. Bangi. NIOSH Publication. ISBN 978-983-42714-9. • Mohd Rafee, B.B., Asilah, A., Rumaya, J., and Shamsul Bahari, S. (2012). Associations of blood lead and disciplinary behavior among male adolescents in Selangor. Journal of Occupational Health and Safety, Vol:9.109-116. • Kementerian Pengajian Tinggi (2012). Prosedur tetap operasi pengurusan bencana di institusi pengajian tinggi. Serdang. UPM Publication. • Technical Committee on OSHMS Guidelines. (2012). Guidelines on occupational safety and health management system. Kuala Lumpur. Mashi Publication. • Syazwan, A.I., Mohd Rafee, B.B., Juahir Hafizan, AZF Azman, Nizar, A.M., Izwyn, Z., Syahidatussyakirah K., Muhaimin, A.A., M Amirul Syafiq, M.Y., Anita, A.R., Muhamad Hanafiah, J., Shaharuddin M.S., A. Mohd Ibtisham, Mohd Hasmadi Ismail, Mohamad Azhar, M. N., Azizan, H.S., Zulfadhli I. Othman J., Rozalini M., and Kamarul F.T. (2012). Analysis of indoor air pollutants checklist using environmetric technique for health risk assessment of sick building complaint in non-industrial workplace, Drug, Healthcare and Patient Safety, Vol:4.1-20. • Syazwan, A.I., Mohd Rafee, B.B., Juahir Hafizan. (2012). Development of an indoor air quality checklist for risk assessment of indoor air pollutants by semi-quantitative score in nonindustrial workplaces, Risk Management and Healthcare Policy Vol:5.17-23. • Mohd Rafee B.B., Ismail B. S., Norela S. & Fadzil O.(2011). Pesticide risk assessment: A study on inhalation and dermal exposure to 24-D and paraquat among paddy farmers, Journal of Environmental Science and Health • Shamsul Bahari M.N., Mohd Rafee B.B., Mansor, A., Zailina, H., Mariah, A., Fauziah, A., Rozana, S., & Mohamad Azhar. M.N. (2009). Manual Keselamatan dan Kesihatan Pekerjaan UPM. Serdang: UPM Publication. • Mazlin M. & Goh C,T. (2009). Towards a Malaysian System for Managing Chemicals : In the eye of the stakeholder. In. Ismail S. and Mohd Rafee B.B (eds). Regulatory Control of Agrochemical Pesticides in Relation to Agriculture in Malaysia. p.p. 31-38. Bangi. Lestari Publication. • Nurul Asyiqin, M.A, Shamsul, B.M.T., Mohd Shahrizal, D., Mohamad Azhar, M. N., Mohd Rafee, B.B., Velu, P. & Norhisham, S. (2009). Development of Ergonomics Furniture for Primary School in Malaysia. ALAM CIPTA, Int. J. on Sustainable • Tropical Design Research & Practice Vol. 4 (1). • Nurul Asyiqin, M.A., Shamsul, B.M.T., Mohd Shahrizal, D., Mohamad Azhar, M. N., Mohd Rafee, B.B. & Zailina, H. (2009). Neck, shoulder, upper back and lower back pain and associated risk factors among primary school children in Malaysia. Journal of Medical Safety. Vol:2.37-46. • Shamsul, B.M.T., Mohamad Azhar, M. N., Mohd Rafee, B.B. & Nurul Asyiqin, M.A.(2009). Ergonomic Risk Factors and Health Effects among visual display unit (VDU) users among Malaysian government servants. Journal of Medical Safety. Vol:2:23-36. • Syazwan Aizat I., Shamsul Bahri M Tamrin., Mohd Rafee BB., Mohamad Azhar, M.N., Zailina Hishim. (2010). The Evaluation of Two Ergonomic Intervention Programs in Reducing Ergonomic Risk Factors of Musculoskeletal Disorder among School Children. Research Journal of Medical Sciences. Vol 4(1): 1-10. MedWell Journals Index Corpenicus • Shamsul BMT, Mohamad Azhar MN & Mohd Rafee BB. 2008. Ergonomic problems among Malaysian VDU employees. DOSH Putrajaya. • Shamsul BMT & Mohd Rafee BB. 2008. Prevalens of LBP among Malaysian Nurses. DOSH Putrajaya. |

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| | <ul style="list-style-type: none"> • Mohd Rafee BB, Ismail BS, Norela S. and Fadzil O. 2007. Occupational exposure assessment and health effects among pesticides operators in the IADP Kerian. Malaysian Journal of Public Health Medicine. Vol 7 (Supp.3). 29-30. • Ismail, B. et. al., (2004). Pengurusan Risiko OSH. In. Mohd Rafee BB (eds). Pengurusan Keselamatan dan Kesihatan. Manual Kursus Pegawai Keselamatan dan Kesihatan Modul 1. p.p. 19-38. Bangi : Penerbitan NIOSH. ISBN 983-99082-4-2 • Ismail, B. et al., (2004). Hazard Biologi. In. Mohd Rafee BB (eds). Kesihatan Pekerjaan dan Higien. Manual Kursus Pegawai Keselamatan dan Kesihatan Modul 3 . p.p. 157-162. Bangi : Penerbitan NIOSH. ISBN 983-99082-4-2 |
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| H. PROJEK PENYELIDIKAN TERDAHULU(Past Research Project) | |
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| Research/Consultation Experience | |
| 1. | The evaluation of occupational and environmental risk indicators for pesticides exposure in paddy growing areas of the IADP Kerian-Sg.Manik (MOSTI : 06-01-02-SF0511) |
| 2. | HIRARC and ergonomic improvement in Malaysian primary school (RUGS) |
| 3. | Prevalence on MSD and its associated risk factors among printing workers in manufacturing industries. (RUGS) |
| 4. | Health effects among Malaysian visual display workers (JKKP DP/D 127/430/1-6) |
| 5. | Back Pain among Malaysian Nurses (JKKP127/430/1-7) |
| 6. | Occupational Safety and Health Profile in Malaysia (JKKP DP/D 127/430/1-12) |
| 7. | Estimating of accident cost analysis in the SMEs Malaysia. (JKKP DP 127/430/1-18) Principal Consultant (Project Leader). |
| 8. | Conducive Working Environment in Ministry of Human Resource Putrajaya. (JKKP DP 127/430/1-19) Principal Consultant (Project Leader). |
| 9. | Metal Working Fluids (MWFs) Exposure and its associated Health Effects in manufacturing industries. (JKKP DP 127/430/1-18) Principal Consultant (Project Leader). |
| 10. | Commuting accident risk factors and estimating of cost amongst SOCSO contributors. (PKS.CPP(S):208/106/4Jld.13(25). Principal Consultant (Project Leader). |
| 11. | A study on knowledge, attitude and practice towards OSH among workers in Malaysia. (NIOSH-SOCSO researcher) |
| 12. | A study on accident cost involving government public servant in Malaysia. |