



CONSULTATION, RESEARCH AND DEVELOPMENT DEPARTMENT

TECHNICAL EXPERT PROFILE



- Name : Hj. Mohd. Esa Bin Hj. Baruji
- Designation : Technical Expert I (Principle Consultant/ Principle Researcher)
- Email Address : mohd.esa@niosh.com.my
- Research Interest :
- OSH Forensic Engineering
 - Safety Culture & Leadership
 - IR 4.0
 - OSH Innovation & Commercialisation
- Education :
- Bachelor of Engineering in Electrical and Electronic, University of Manchester Institute Science & Technology (UMIST), Manchester, United Kingdom
 - Master in Industrial Safety Management from National University of Malaysia
- Expert in the OSH field :
- OSH legislation compliance (e.g. process safety management, confined space risk assessment),
 - OSH solution (e.g. development of HIRARC, risk management),
 - OSH advisory (e.g. customized/ in-house training development), and

- Laboratory service (e.g. laboratory management representative, equipment calibration and industrial hygiene analytical process).

Research / Publications / Seminar & Conference Presentation

: Books (ISBN):

- Buku Panduan Pematuhan Akta Keselamatan Dan Kesihatan Pekerjaan (AKKP) 1994 bagi Sektor Awam: Pematuhan bagi Penjawat Awam untuk Pelaksanaan Pematuhan AKKP 1994 (2020) (978-967-15635-9-5)
- Asian OSH Research Institute (AOSHRI) (2019), Report Summary of AOSHRI Progress Meeting & Activity (ISBN 978-967-15635-7-1);
- Health Hazard Control, Intervention Approach & Challenges (HCIC) (2019) (ISBN 978-967-15635-6-4);
- Empower OSH: Innovative Tools to Empower Principle Employer In OSH Implementation At Place of Work, NIOSH & DOSH (2018) (ISBN 978-967-15635-1-9);
- How To Be A Superb OSH Leader, NIOSH (2018) (ISBN 978-967-15635-5-7);
- Occupational Health Hazard And Control- Malaysia's Health Risk Assessment (HRA) Approach (2018) (ISBN 978-967-15635-4-0);
- Buku Panduan KKP Untuk Sekolah Tahfiz (2017) (ISBN 978-967-15562-1-4);
- Inventori Protokol Kajian Pembangunan Rancangan Penambahbaikan KKP Bagi Memperkasakan Peranan Majikan Utama di Malaysia, NIOSH & DOSH (2017) (ISBN 978-967139467-0);
- Panduan KKP di Tapak Projek Perusahaan Kecil dan Sederhana (PKS) – Sektor Kemudahan, NIOSH & DOSH (2015);
- Kajian Kes Keselamatan dan Kesihatan Pekerjaan (KKP), NIOSH, ILMIA (2014); and
- Tragedi Kemalangan Di Tempat Kerja; Implikasi, Kawalan & Pampasan, NIOSH & SOCSO (2014) (ISBN 978-967-12137-5-9).

Article/ Proceedings/ Technical report (ISSN):

- NIOSH Malaysia on International Platform to Strengthen the OSH Research Collaboration – AOSHRI Progress Meeting Program 2019. FYi NIOSH Dec 2019;
- Are We Safe Enough to Face The Unexpected/ New Emerging Hazards in the Next Revolution? FYi NIOSH Dec 2018;
- Malaysia's Health Risk Assessment (HRA) Approach. FYi NIOSH Nov 2018;
- How to be a Superb OSH Leader. FYi NIOSH Oct 2018;
- The Role of Principle Employer in OSH Implementation in Malaysia. FYi NIOSH March 2018;

- Innovative Tools to Empower the Employers in Enhancing OSH at Place of Work. FYi NIOSH Feb 2018;
- Is MSMEs Still Tough Enough To Implement OSH? Can't Change To Safer and Healthier Condition? Report On Work Improvement For Small Medium Enterprises (WISE) Program By NIOSH, FYi NIOSH (2018);
- Development and Validation of Instruments for Measuring Principle Employer's Roles and Responsibilities in OSH Implementation in Malaysia, JOSH, June 2018;
- OSH Compliance Support – How Interagency Collaboration Can Work In MSMEs?, FYi NIOSH (2017);
- An Assessment Of Atmospheric Testing And Monitoring In Tunnel, Technical Report, APOSHO 31, National Safety Council, India (2016);
- An Initial study on accident rate in the workplace through Occupational Safety and Health Management in Sewerage Services, International Journal of Business and Social Science (2015);
- A Preliminary Study on Accident in the Workplace through Occupational Safety and Health Management in Electricity Services, International Journal of Research in Business and Management (2015); and
- OSH Audit Compliance At National Service Training Program (NSTP) Camps In Malaysia: Training Elements, JOSH, December 2014.

Project management

- Head researcher for Health Hazard and Control (2017 to 2019). Project value: RM 2.6 million;
- Lab Advisor, Forensic Engineering Laboratory (FEL) (2018 to 2019), OSH Evaluation and Control Technology Centre (OSHECT). Project value: RM 1.9 million;
- Head researcher for Occupational Safety and Health (OSH) Improvement to Empower the Role of Principal Employer in Implementing OSH in Malaysia (2016 to 2018). Project value: RM 1.6 million;
- Program Head for Anthropometry for Malaysia age-population (2018 to 2020). Project value: RM 0.54 million;
- OSH Legislation Compliance Level and Issues at Small and Medium Enterprises (SMEs) at Utilities Sector (2014 to 2015). Project value: RM 0.45 million; and
- Program Head. Needs Analysis of OSH for Ageing Workforce in Malaysia Manufacturing Sector (2019-2021). Project value: RM 0.25 million.