



WERKFORCE ^{iCATS}

Talent Development,
Our Commitment

The Official Newsletter of Sarawak Skills Development Centre

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& RENEWABLE ENERGY TECHNOLOGIES**



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HOW TO REACH US?

If you have any comments, suggestions or ideas, please contact us:

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We are pleased to release the July - September 2020 issue of WORKFORCE, the official newsletter of Sarawak Skills Development Centre. It features updates on events and happenings in Sarawak Skills.

Executive Director's Perspective

At Sarawak Skills, the third quarter of the year has been a hive of activity - the COVID-19 pandemic has accelerated the development and implementation of various strategic countermeasures against this pandemic of epic proportions, including the adoption of novel initiatives to facilitate teaching and learning amidst the dark clouds of uncertainty hanging over the globe.

Indeed, to chart the way forward, there is a need to navigate through uncertainties brought about by the pandemic. In this respect, during the quarter, with fresh insights and perspectives after analysing the state of things through new lenses, we launched our five-year blueprint to transform the teaching and learning ecosystem across our campuses and learning centres. At the heart of our strategic blueprint is the need to achieve strategic agility. This will be instrumental as we tap our creative and innovative wellsprings to transform teaching and learning at Sarawak Skills, including teaching/training delivery. With five strategic thrusts in place, Sarawak Skills will roll out various initiatives over the next five years.

As a stakeholder in the transformation of Sarawak's economic and digital landscape, Industry Revolution 4.0 and Renewable Energy technologies have become important pillars in Sarawak Skills' multipronged approach to talent development. With each passing day, the drumbeat of the digital economy grows stronger - truly, post-secondary education is an all-important catalyst for sustainable development. In this edition of the Workforce Newsletter, we are honoured to share with you, our various activities in this exciting area such as our Smart Classroom Initiative, Integration of Industry Revolution 4.0 technologies into existing equipment (for the industries) and our long-standing commitment to protect the environment through the implementation of green technologies.



These initiatives are aligned with the Sarawak Government's post COVID-19 exit economic strategy up to 2030.

In August 2020, Sarawak Skills won the Gold Award for the Annual Quality Environment Challenge (AQEC) 2020 - awarded by the Malaysian Productivity Corporation. A feather in our cap, this award is a testament to the commitment of our team members to provide a conducive, and safe teaching and learning environment for all stakeholders.

As we progress along our noble voyage to produce a qualified and competent workforce through continuous learning and development, the continued support of our stakeholders comprising the government, various sectors of industry, parents, alumni, students and staff members will enable us to acquire fresh insights into what lies ahead for Sarawak Skills. Indeed, with our stakeholders' support, we will be able to predict, with some measure of certainty, what lies beyond the next bend in the road.

HALLMAN HAJI SABRI

Executive Director

Sarawak Skills Development Centre

Industry Revolution 4.0 and Renewable Energy Technologies Important Pillars in Sarawak Skills' Multipronged Approach to Talent Development

The Sarawak Skills Development Centre (Pusat Pembangunan Kemahiran Sarawak) has launched a five-year blueprint to transform the teaching and learning ecosystem across its campuses and learning centres. In this respect, Industry Revolution 4.0 and renewable energy technologies have been incorporated into its technical curricula - an important part of Sarawak Skills' objective to offer industry-driven and future-oriented educational, and training courses and programmes.

Commenting on the blueprint, Mr. Hallman Bin Haji Sabri, Sarawak Skills' Executive Director highlighted, "At Sarawak Skills, we take great pride in transforming the lives of our students and trainees, to prepare them for the world of work. With the Digital Economy and Industry Revolution 4.0 on our doorstep, we have adopted a multipronged approach to talent development. In this respect, we have incorporated Industry Revolution 4.0 and renewable energy technologies into our curricula. This is in line with the State Government's post COVID-19 exit economic strategy up to 2030."

He added, "To facilitate our ongoing effort to develop an agile workforce, we have also put in place various initiatives to ensure that our students and trainees are equipped with all-important twenty-first century attributes and skills. For example, to facilitate our students' transition from the classroom to the world of work, we have initiated a character-building programme for all students. Through this programme, in addition to technical skills, students hone other important essential skills that give human beings the edge, e.g. Critical Thinking, Creativity, Communication, Problem-solving and Decision-making. An important part of the programme is the emphasis on English language competency. Indeed, our activities reaffirm the importance of post-secondary education as a catalyst for sustainable development."

With regard to short courses, Mr. Hallman shared, "In June 2020, we launched a suite of new online programmes to facilitate the development of an agile workforce. These programmes are centred on Smart Agriculture, Industry Revolution 4.0, Science, Technology, Engineering and Mathematics (STEM), and Leadership and Management." We also have a number of fully-funded certified programmes for fresh graduates and unemployed individuals such as Expert Craftsman programmes (Electrical and Electronic Engineering, and Programmable Logic Controller Technology), and Integrated IoT and Cybersecurity in Manufacturing programme. During the course of these fully funded programme(s), trainees will receive a monthly living allowance."

With regard to physical teaching and learning facilities/infrastructure, Mr. Hallman highlighted, "In early September 2020, we launched the Smart Classroom Initiative. This is part and parcel of a series of projects to upgrade our teaching and learning facilities in line with the requirements of Industry Revolution 4.0. In addition to fostering a student-centred and collaborative teaching and learning environment, the integration of Industry Revolution 4.0





Smart Classroom



Launch of Mini Floating Fountain



Mechatronic Lab



Monitoring Smart Classroom Through Mobile App

technologies into the classroom would facilitate Sarawak Skills' strategic maintenance initiatives, especially in reducing equipment downtime and managing costs effectively."

Mr. Hallman emphasized, "As a stakeholder in the transformation of Sarawak's economic and digital landscape, Sarawak Skills works closely with the industries on the integration of Industry Revolution 4.0 technologies into existing equipment (Legacy Equipment). A significant trend is the increasing adoption of automation across the various industry sectors. For example, in the manufacturing sector, the Internet of Things (IoT) has come to the fore, and is one of the defining technologies of Industry Revolution 4.0 - a game changer in areas such as automation engineering and manufacturing. This is important to boost productivity and manage costs. Our strong ties with the various industries will also ensure that our curricula can be updated regularly and in a timely manner in line with industry needs."

In line with Sarawak Skills' long-standing commitment to protect the natural environment and 'to go green', in addition to Industry Revolution 4.0 technologies, renewable energy applications and technologies have been incorporated into its technical curricula. In this respect, Mr. Hallman shared, "Various environmentally-friendly projects have been initiated by the staff and students of Sarawak Skills. A shining example is the solar-powered Mini Floating Fountain by the students (cohort(s) 3 & 4) of the Diploma in Electrical Power Generation programme at PPKS Private Vocational College, a subsidiary of the Sarawak Skills Development Centre. Located in the centre of the Sarawak Skills' pristine pond, the project was a wonderful opportunity for the students to bring theoretical concepts to life. Under the guidance of their lecturers, the students were involved in all aspects of the project, from design to commissioning. An important aspect of the design process was the selection of components/equipment that would reduce the carbon footprint and withstand the elements. Indeed, this is part and parcel of Sarawak Skills' ongoing effort to harness clean renewable energy sources such as solar, wind and water (hydro).



View of the Mini Floating Fountain

PROGRAM CSR SARAWAK SKILLS 2020



En. Hallman Hj Sabri (lima dari kanan) menyampaikan sumbangan "Pelitup Muka" kepada Tuan Hj Affandi Bin Rosli (empat dari kiri), yang mewakili Sekolah-Sekolah Angkat Sarawak Skills.

Melalui program CSR (Corporate Social Responsibility) 2020, Sarawak Skills telah mengagihkan sebanyak 334 kotak pelitup muka kepada 25 buah Sekolah Angkatnya di sekitar Kuching, Samarahan dan Padawan.

Sumbangan tersebut telah disampaikan oleh Pengarah Eksekutif Sarawak Skills, Encik Hallman Bin Haji Sabri pada 12 Ogos 2020 di SMK DPHA Gapor. Menurut Encik Hallman, inisiatif program tersebut merupakan salah satu kelebihan sebagai sekolah-sekolah dibawah naungan program "Sekolah Angkat".

"Ini merupakan antara kelebihan yang terdapat dalam program Sekolah Angkat selain daripada memberikan insentif kepada pelajar cemerlang, mengadakan program-program ceramah TVET dan STEM dan lain-lain." Ujar beliau.

Beliau menambah, "Diharap pemberian ini sedikit sebanyak dapat membantu pihak sekolah dalam menyediakan pelitup muka kepada guru-guru, kakitangan sekolah dan pelajar-pelajar dalam amalan SOP norma baru untuk membanteras pandemic COVID-19."

Tuan Hj Affandi Bin Rosli, Pengetua SMK DPHA Gapor telah mewakili Sekolah-Sekolah Angkat untuk menerima sumbangan tersebut daripada Sarawak Skills. Selain itu, 8 buah "Stand Sanitizer" juga diberikan kepada SMK DPHA Gapor dan SMK Sungai Tapang, iaitu 2 buah sekolah yang telah menghantar paling ramai pelajar ke institusi kumpulan Sarawak Skills.

Antara sekolah-sekolah yang terlibat ialah, SMK Kota Samarahan, SMK Muara Tuang, SMK Padungan, SMK Siburan, SMK Wira Penrissen, SMK Bako, SMK Santubong, SMK Jalan Arang, SMK Batu Kawa, SMK Semerah Padi, SMK Pending, SMK Sg Maong dan SMK Matang Jaya.

Turut bersama dalam program tersebut ialah Encik Alta Abang Anak Kasum daripada Sektor Pengurusan Pembangunan Kemanusiaan, Jabatan Pendidikan Negeri Sarawak yang merupakan wakil kepada Encik Mortadza Bin Saat, Timbalan Pengarah Jabatan Pendidikan Negeri Sarawak, Encik Mohamad Isham Bin Fauzi, Ketua Pegawai Eksekutif i-CATS, dan Tuan Haji Rambli Bin Haji Hasbi, Ketua Pemasaran Sarawak Skills.



Mohamad Fadli Bin Bahari

*Fashion Designer
(Self-employed)*

Class of 2017

Tailoring
(Malaysian Skills Certificate, Level 1)
Sarawak Skills Mukah

Personal Motto

Discover your strengths and interest(s).
Explore new challenges and opportunities as you strive to develop your career.

Mohd Huzaini Bin Tahir

*Founder/Owner of
Ardenk Enterprise & Ardenk Studios*

Class of 2009

Graphic Design
(Malaysian Skills Certificate, Level 3)
Sarawak Skills Kuching

Personal Motto

Believe in your abilities.
Perseverance leads to success!





*Train-The-Trainer (TTT) Course for Virtual Classroom Interaction
(8-9 July 2020)*



*Visit by Mr. Redzuan Abd Rahman, Director of Malaysian Investment
Development Authority (MIDA), Sarawak to i-CATS West Campus
(9 July 2020)*



*Building and IoT Application with Node-red's Platform Programme
(25-26 August 2020)*



*Visitors from Ministry of Utilities Sarawak and Related Agencies
(27 August 2020)*



*Memento for Captain Shan Moorthi (RTD),
Founder & CEO Teamcoach International, and President,
International Association of Coaching (IAC) 2020-2021 for conducting
a Motivational Talk: Leaders as Coaches
(10 September 2020)*



*Ceramah untuk Program Halataju Kerjaya & Peluang Melanjutkan
Pengajian Selepas SPM kepada Pelajar-Tingkatan 5
SMK Padungan, Kuching
(17 September 2020)*



Courtesy Visit to the Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari Bin Tun Datuk Abang Haji Openg, Chief Minister of Sarawak by delegation comprising Assistant Minister of Education, Science and Technological Research, YB Dr. Annuar Rapaee, Management of Sarawak Skills, Malaysia Automotive Robotics And IoT Institute, and Sibu Automobile Repairers' Association (16 July 2020)



Sharing Session on Effective Marketing Tools and Strategies by Captain (R) Anwar Kamal for Marketing and Recruitment Team (27 July 2020)



Majlis Perpisahan Kohort 3 Kolej Vokasional PPKS Ilmu (28 August 2020)



Visit to Biomedix Solutions Sdn Bhd (28 August 2020)



Lawatan Audit Perkhidmatan ILKS, Kementerian Pendidikan Malaysia (24 September 2020)



E-learning System Discussion & Sharing with Dr. Joseph Ramanair from UNIMAS (30 September 2020)

Opportunity for Fresh Graduates and Unemployed Individuals to Join Fully Funded Expert Craftsman Programmes at Sarawak Skills

Certification from Handwerkskammer (HWK) Aachen, Germany an Affirmation of the Quality and Relevance of Upskilling and Reskilling Programmes

Registration is ongoing for two (2) Expert Craftsman Programmes, namely Electrical and Electronic Engineering, and Programmable Logic Controller (PLC) Technology. Diploma and Bachelor's degree holders (major: Electrical/Electronics/ Mechatronics) from the following categories are encouraged to submit their applications: Fresh Graduates and Unemployed Individuals. Applicants must be between 21 and 35 years old.

Commenting on the programmes, Mr. Hallman bin Haji Sabri, Sarawak Skills' Executive Director highlighted, "These programmes are fully funded by the Malaysian Government. The funding covers both the tuition fees and the examination fees. Since it is a funded training programme, during the course of the programme (3 months), each trainee will receive a monthly living allowance."

Mr. Hallman also shared, "Classes (theory and practical sessions) will be held at the Sarawak Skills Campus in Tabuan Jaya. For the theory classes, in addition to face-to-face sessions, online sessions will be conducted to enhance the trainees' learning experience. Upon completion of the programme and passing the examination, trainees will be awarded a certificate by HWK Aachen, Germany. This is an affirmation of the quality and relevance of these upskilling and reskilling programmes."

He added, "With the emergence of the Digital Economy and Industry Revolution 4.0 in Malaysia, a significant trend will be the increased adoption of automation across the various industry sectors. These courses, as part and parcel of our ongoing initiatives to develop an agile workforce, will equip trainees with the relevant skills to contribute to the industry-wide quest to improve productivity and manage costs effectively."



Seats are filling up quickly for the mid-December 2020 intake of the Expert Craftsman Programmes at the Sarawak Skills Development Centre, Tabuan Jaya, Kuching.

For more information, please contact **Mr. Mahathir bin Abang** (082-364198, 016-7155398). Information can also be obtained from Sarawak Skills' website: www.ppks.edu.my.



Launching of Oxy-fuel Gas Welding Training at AWISAR on 3 September 2020



Group photo with the trainees of Oxy-fuel Gas Welding Training



The training was jointly launched by Sarawak Skills Executive Director Hallman Bin Haji Sabri and One Medicare Sdn Bhd Chief Executive Officer Szazli Tuah Neli

Sumbangan Dana bagi Program Pelatih di Sarawak Skills Mukah daripada Yb. Dato Hajah Hanifah Hajar Taib pada 28 Julai 2020



Sumbangan tersebut diserahkan oleh Pembantu Peribadi Yb. Dato Hajah Hanifah Hajar Taib, En. Akmal Hakim (tengah) kepada kakitangan Sarawak Skills Mukah



Kursus Induksi PPLS CIAST & Kursus Adobe Photoshop

di Sarawak Skills Miri pada 26 - 27 September 2020



Peserta Kursus Induksi PPLS CIAST



Peserta Kursus Adobe Photoshop

Talk on Occupational Safety & Health at Workplace

by SHO Mr. Andrew Lee Salin to SAVTI Staff & Students' Representative Committee on 4 August 2020



Group photo with the participants



Talk conducted by SHO Mr. Andrew Lee Salin

GOLD AWARD

for Annual Quality Environment Challenge 2020





1. *Building Works (Construction & Maintenance) Module III for JKR Sarawak on 7 July 2020.*
2. *Wireman Grade 1 (Three Phase) - EIU Certification for JKR Sarawak from 13 - 18 July 2020.*
3. *Bridge & Riverine Infrastructure for JKR Sarawak on 15 & 16 July 2020.*
4. *Electrical Test for JKR Sarawak on 17 & 18 August 2020.*
5. *Split Unit Aircond for JKR Sarawak from 7 - 9 September 2020.*
6. *Introduction to Structural Analysis and Design (RC) for JKR Sarawak and Ministry of Local Government and Housing from 21 - 24 September 2020.*





*Short Course: Testing, Troubleshooting & Maintenance of Single Phase Electrical Installation
at SEITI, Kuching on 1&2 July 2020*



*Corporate Training Workshop
at Sarawak Skills, Kuching on 13 August 2020*



*Participants from Majlis Islam Sarawak during a training session
at Sarawak Skills, Kuching from 23 to 25 September 2020*

TECHNICAL TRAINING PROGRAMMES

ELECTRICAL			
NO	CODE	TITLE	DURATION
1	E-ERS-1	Electrical Roles and Safety Module	3 Days
2	E-ET-1	Electrical Testing	2 Days
3	E-LM1-1	LC Understanding	5 Days
4	E-LV1-1	Low Voltage Electrical Installation Design Module	2 Days
5	E-MM-1	Measurement Management Module	2 Days
6	E-PM5-1	Project Management and Supervision Module (Electrical)	2 Days
7	E-WDS-2	Wiring and Cable 2 (Single Phase)	7 Days
8	E-WDS-1	Wiring and Cable 1 (Three Phase)	7 Days

MECHANICAL ENGINEERING			
NO	CODE	TITLE	DURATION
1	M-MS-1	ACMV System	3 Days
2	M-ACMV-2	ACMV System for Specialized Applications	5 Days
3	M-BMS-1	Building Management System (BMS) - M&E	3 Days
4	M-SP-1	Cool Water & Sanitary Plumbing Services Rainwater Harvesting System	3 Days
5	M-PP-1	Fire Protection & Alarm System	3 Days
6	M-PP-2	Fire Protection & Alarm System for High Rise Building	3 Days
7	M-SP-1	Hot/Cold Water & Sanitary Plumbing System for High Rise Building	3 Days
8	M-LB-1	Lift & Escalator Systems	3 Days
9	M-PS-1	Pumping Systems	2 Days

QUANTITY SURVEYING			
NO	CODE	TITLE	DURATION
1	QS-CA-1	Contract Administration using Form Of Contract (PWB 75 Rev. 2006)	3 Days
2	QS-CA-2	Contract Administration using Conditions of Contract (PWB2003 Rev. 1/2010 & 203A Rev. 1/2016)	3 Days
3	QS-CA-3	Contract Administration using Conditions of Contract (PWB 08.0 Rev. 1/2010)	3 Days
4	QS-CC-1	Contractual Claims and Assessment	3 Days
5	QS-MQC-1	MyCIS/M&E	2 Days
6	QS-PP-1	Procurement Procedure for Federal Quotation	2 Days
7	QS-PP-2	Procurement Procedure for State Quotation	2 Days
8	QS-PP-3	Procurement Procedure for State Tender	2 Days
9	QS-PMB-1	Procurement Design & Built Contract	2 Days
10	QS-ST1-1	State Tender Evaluation Methodology	2 Days
11	QS-TQC-1	Taking Off Quantities & Estimation	2 Days

WATER SUPPLY INDUSTRY			
NO	CODE	TITLE	DURATION
1	WS-WSP-1	Water Safety Plan Workshop	2 Days
2	WS-NRW-1	NRW & Leak Detection Training	2 Days
3	WS-IP-1	Best Practices for Enhancing Process Safety and Chemical Handling at Water Treatment Plant	2 Days
4	WS-WQ-1	Water Quality Monitoring	2 Days
5	WS-DE-1	How to Conduct Dam Analysis & Checklist	2 Days
6	WS-NRW-2	Concession NRW Challenges	2 Days
7	WS-IP-2	The Best Practices for Customer Service Management in Water Utility Company	2 Days
8	WS-URR-1	Understanding on Reservoir and River Pump House Operation	2 Days
9	WS-RPL-1	The Successful of Key Performance Indicator (KPI) for Water Utility Company	2 Days
10	WS-UP-1	Understanding on Pipe Laying Techniques	2 Days

ARCHITECTURAL			
NO	CODE	TITLE	DURATION
1	AD1-BIM-1	Building Information Modelling (BIM) - REVIT Architecture	4 Days
2	AD1-BIM-2	Building Information Modelling (BIM) - REVIT Architecture	5 Days
3	AD2-IT1-1	Draughting Level 1	3 Days
4	AD2-IT1-2	Draughting Level II	3 Days

CIVIL ENGINEERING (ASSET)			
NO	CODE	TITLE	DURATION
1	CA-BM-1	Bridge Maintenance	1 Day
2	CA-IM-1	Road Maintenance	1 Day
3	CA-RIM-1	Riverine Infrastructure Maintenance	2 Days
4	CA-SM-1	Slope Maintenance	1 Day

CIVIL ENGINEERING (BUILDING)			
NO	CODE	TITLE	DURATION
1	CB-BV-1&2	Building Works I (Construction & Maintenance) Module II	2 Days
2	CB-BV-1&3	Building Works I (Construction & Maintenance) Module III	2 Days
3	CB-BCM-LM1	Introduction to Building Construction & Maintenance (Module 1)	4 Days

CIVIL ENGINEERING (BRIDGES & RIVERINE)			
NO	CODE	TITLE	DURATION
1	CB-IB1-1&1	Bridges & Riverine Infrastructure (Module I)	5 Days
2	CB-IB1-1	Bobby Bridge (100% hands-on)	3 Days

CIVIL ENGINEERING (STRUCTURE)			
NO	CODE	TITLE	DURATION
1	CS-WD-1	Civil Engineering Works Design for Building Project	2 Days
2	CS-WD-2	Civil Engineering Works Design for Building Project (Drainage Design)	2 Days
3	CS-WD-3	Civil Engineering Works Design for Building Project - Civil 3D	3 Days
4	CS-FD-1	Foundations Design	1 Day
5	CS-FD-2	Foundation Design (Soft soil)	2 Days
6	CS-SAD-1	Introduction to Structural Analysis & Design (SAD)	5 Days
7	CS-PWD-1	Steel Works Design for Building Project - MA Road	2 Days
8	CS-SAD-2	Structural Analysis & Design (Steel) TERKA	3 Days
9	CS-SAD-3	Structural Analysis & Design (RC & Steel) (MCP/M&E)	3 Days
10	CS-SAD-4	Structural Analysis & Design (RC & Steel)	3 Days
11	CS-SAD-5	Structural Analysis & Design (RC)	3 Days

CIVIL ENGINEERING (ROAD)			
NO	CODE	TITLE	DURATION
1	CR-RCM-M1	Introduction to Road Construction & Maintenance (Module I)	2 Days
2	CR-RCM-M2	Road Construction & Maintenance (Module II)	3 Days
3	CR-PT-1	Kursus Pengiraan Trafik Semasa Pendidikan	1 Day
4	CR-AN-1	Kursus Audit Kaulanan Jalan (Peringkat 1 & 2)	5 Days
5	CR-ITD-1	Kursus Teknikal Teknik Turapan Jalan - Flexible Pavement	1 Day
6	CR-RPS-1	Kursus Rekabentuk Perbot dan Tandak Jalan	1 Day
7	CR-PPS-1	Kursus Pengiraan Program dan Penilaian Projek Jalan	1 Day
8	CR-PPS-1	Kursus Penyelidikan Penyelidikan Projek Jalan	1 Day
9	CR-PT-1	Kursus Pengiraan Trafik Semasa Pendidikan	2 Days
10	CR-IB1-1	Kursus Teknikal Teknik Jalan dan Perancangan	1 Day
11	CR-FBI-1	Kursus Fasilitas Keselamatan Jalan	1 Day
12	CR-RPS-2	Kursus Rekabentuk Perumahan dan Perumahan Jalan	1 Day
13	CR-TOD-1	Pengiraan Teknologi Datar dan Data Dalam Rekabentuk Jalan	1 Day

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