

No	Training Institutions	Address	State	Tel	Fax	Contact Person	Email	Website	Year of Establishment
6	Malaysian Institute of Chemical and Bio-engineering Technology (MICET)	Lot 1988, Kawasan Perindustrian Bandar Vendor, Taboh Naining 78000 Alor Gajah	Melaka	06-5512000	06-5512001	Prof. Mohd. Azemi bin Mohd. Nor (Provost)	azemi@micet.edu.my	http://www.micet.edu.my/	2003
7	Malaysian Institute of Marine Engineering Technology (MIMET)	1st Floor Menara TH Perdana, 1001 Jalan Sultan Ismail 50250 Kuala Lumpur	WPKL	03-26989895	03-26989896	-	-	http://www.unikl.edu.my	2003

Section C1.9 National Youth Skills Institutes (MYS)

No	Training Institutions	Address	State	Tel	Fax	Contact Person	Email	Website	Year Est'd
1	Institut Kemahiran Belia Negara Bukit Mertajam	Jalan Berapit 14000 Bukit Mertajam	Pulau Pinang	04-5225288	04-5225289	Hamizatul Azura Bt Hamzah (Deputy Skill Director)	-	http://www.ikbnbn.edu.my/in dex2.htm	na
2	Institut Kemahiran Belia Negara Dusun Tua	DusunTua 43100 Hulu Langat	Selangor	03-90217096, 03-90217099, 03-90217100	03-90211839	Abdullah Hapipi Bin Dairmon (Director)	ikbnbn@tm.net.my	http://ikbnbn.mmu.edu.my/	na
3	Institut Kemahiran Belia Negara Kuala Perlis	Jalan Bukir Kubu 20000 Kuala Perlis	Perlis	04-9855985	04-9852434	Noor Azita Binti Bakar (Deputy Skills Director)	ikbnkpb@tm.net.my	http://www.geocities.com/ikbn _kperlis/	na
4	Institut Kemahiran Belia Negara Pagoh	KM21, Jalan Panchor 84600 Muar	Johor	06-9737836	06-9737837	Mohammad Ghazali Bin Hj. Udin (Director)	ikbnnp@tm.net.my	http://www.geocities.com/ikbn _pagoh/	na

No	Training Institutions	Address	State	Tel	Fax	Contact Person	Email	Website	Year Est'd
5	Institut Kemahiran Bella Negara Sri Iskandar	32600 Bota	Perak	05-3711300/1/2	05-3711293	Borhan Bin Harman (Director)	ikbnst@yahoo.com	http://www.ikbnst.edu.my/	na
6	Institut Kemahiran Bella Negara Miri	Jalan Permyjaya Utama, Bandar Baru Permyjaya 98000 Miri	Sarawak	085-660714	085-659546	Zalkei Bin Hj Salleh (Director)	-	http://www.geocities.com/ikbnmiri_sarawak/	na
7	Institut Kemahiran Bella Negara Peretak	44000 Kuala Kubu Baru	Selangor	03-60651400	03-60641941	Ab. Rashid bin Hj Deraman (Director)	-	http://www.geocities.com/ikbn_peretak/	na
8	Institut Kemahiran Bella Negara Jitra	Jalan Changlun 06000 Jitra	Kedah	04-9174676	06-9174444	Zulkifli Bin Ismail (Assistant Vocational Training Officer)	ikbn_jitra@mail.kbs.gov.my	http://www.geocities.com/ikbn_jitra2/	na
9	Institut Kemahiran Bella Negara Chembong	71300 Rembau	Negeri Sembilan	06-6857900	06-6857989		webmaster_ikbn9@yahoo.com	http://www.geocities.com/ikbn_chembong/	na
10	Institut Kemahiran Bella Negara Wakaf Tapai	KM24, Jalan Kuala Berang 21040 Marang	Terengganu	09-6802080	09-6802079	Tuan Abdul Rahim Bin Tuan Bahru (Director)	ikbnwt@tm.net.my	http://www.geocities.com/ikbn_wtapai/	na
11	Institut Kemahiran Bella Negara Kinarut	WDT 16, Jalan Limau-limauan 89609 Papar	Sabah	086-755929	088-754351	Mohd Selihin Bin Hj. Kachon (Director)	ikbn_kinarut@kbs.gov	http://www.geocities.com/ikbn_kinarut/	na
12	Institut Kemahiran Tinggi Bella Negara Sepang	Bandar Baru Salak Tinggi, 43900 Sepang	Selangor	603-87061720/21/22	603-87061725	Ahmad Bin Sulaiman (Head of Skill Department)	ahmadadisu@ikbn.pp.my	http://www.ikthn.edu.my/	1990

No	Training Institutions	Address	State	Tel	Fax	Contact Person	Email	Website	Year Est'd
13	Institut Kemahiran Belia Negara Alor Gajah	KM34, Jalan Ramuan China Besar 78300 Masjid Tanah	Melaka	06-3851255	06-3851250	Tn. Hj. Rosli bin Saad (Director)	ikbnac@myairing.net	http://www.geocities.com/ikbnac/	na
14	Institut Kemahiran Belia Negara Bachok	16300 Bachok	Kelantan	09-7787700	09-7787712	Mohd Sukri Bin Musa (Deputy Skill Director)	sukri@kbs.gov.my	http://www.geocities.com/ikbnbachok2004/	na

Section C1.10 State Skills Development Centres (State)

No	Training Institutions	Address	State	Tel	Fax	Contact Person	Email	Website	Year Est'd
1	Penang Skills Development Centre	1, Jalan Sultan Azlan Shah, 11909 Bayan Lepas	Penang	04-6437909	04-6437929	Mis Lim Wei Chen (Systems & Program Development Manager)	admin@psdc.org.my	http://www.psdc.com.my/	1989
2	Selangor Human Resource Development Centre	No 1A, 1st Floor, Block 2, Pusat Perniagaan Worldwide, Jalan Tinju 13/50, Section 13 40100 Shah Alam	Selangor	03-55133560	03-55133490	Tan Beng Teong (Executive Director)	info@shrdc.org.my	http://shrdc.netstdc.org.my/	1992
3	Pahang Skills Development Centre	Lot 150, Taman Perindustrian Semambu 25350 Kuantan	Pahang	09-5673200	-	A. Rahim bin Omar (Training & Technical Director)	arahim@shnsdc.edu.my	http://pasdc.netstdc.org.my/	1993
4	Perak Entrepreneur & Skills Development Centre	Kawansan Perindustrian Pengkalan 2 31400 Ipoh	Perak	05-3668869	05-3668870	S. Thillainathan (Marketing Executive)	psdc@psdc.net.my	http://psdc.netstdc.org.my/	1993
5	Negeri Sembilan Skills Development Centre	Batu 8 1/2, Jalan Seremban-Mantin Mantin	NS	06-7587404	06-7587401	Alias Bin Mohd Nadzri (Executive Director)	nssdc@nsstdc.org.my	http://nsstdc.netstdc.org.my/	1994
6	Johor Skills Development Centre	PLO 2, Jalan Perak 4, Kawasan Perindustrian Pasir Gudang, 81700 Pasir Gudang	Johor	07-2521606	07-2521722	Haji Jaapar bin Samat	puspatri@im.net.my	http://puspatri.netstdc.org.my/	1994

No	Training Institutions	Address	State	Tel	Fax	Contact Person	Email	Website	Year Est'd
7	Melaka Industrial Skills Development Centre	Lorong 1 Jalan PBB 6 75450 Batu Berendam	Melaka	06-3353576	06-3353577	Zamrud Bin Mansor (Executive Director)	miscdc@tm.net.my	http://miscdc.netsec.org.my/	1994
8	Terengganu Advanced Training Institute	Kampus Tati, Jalan Bachok, Teluk Kalong 24000 Kemaman	Terengganu	09-8633863	09-8633863	Dr. Mohd Rozailan Bin Mamat @ Ibrahim (Chief Executive Officer)	drozailan@tati.edu.my	http://tati.netsec.org.my/	1996
9	Kedah Industrial Skills & Management Centre	351-352 Jalan Bandar Baru 4, Taman Bandar Baru 08000 Sungai Petani	Kedah	04-4414619	04-4414622	Wan Ismail bin Ibrahim (Executive Director)	kismec@tm.net.my	http://puspatri.netsec.org.my/	1993
10	Sarawak Skills Development Centre	Jalan Wan Ali Tabuan Jaya 93350 Kuching	Sarawak	082-364198	082-364198	Khaninah Ariff (Training and Program Manager)	paks@streamyx.com	http://ssdc.netsec.org.my/	1996
11	Sabah Skills and Technology Centre	Lot 5, EOIZ Phase 1, KKIP, Jalan Sepagar, Menggatal Kota Kinabalu	Sabah	088-496613	088-499615	Natalie Fung (Director)	ssic@sabah.edu.my	http://ssic.netsec.org.my/	1999
12	Terengganu Skills Development Centre	Kawasan Perindustrian Bukit Khor	Terengganu	09-6183210	09-6183212	Sheikh Nehmil Emir Bin Alias (Assistant Director of Finance & Management)	tesdec@tm.net.my	http://tesdec.netsec.org.my/	1999

Section C 2 Profile of Courses

Section C2.1 Industrial Training Institutes (MoHR)

Courses	Particulars	
Industrial Mechanic	Course Code: A 01	
Introduction	Trainees are taught on using hand tools for accurate measurement, techniques of gas and arc welding, metal fabrication, maintenance and repair of machinery and the use of pneumatic and hydraulic systems.	
Course Duration	▪ 1 year	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Pasir Gudang ▪ ITI Kuala Terengganu ▪ ITI Labuan ▪ ITI Melaka 	<ul style="list-style-type: none"> ▪ ITI Kota Bahru ▪ ITI Ipoh ▪ ITI Kuantan ▪ ITI Jitra
Career Opportunity	Upon completion of the course, participants can progress to either the engineering or manufacturing industries sector.	
General Machining	Course Code: A 02	
Introduction	Participants will be taught the following: <ul style="list-style-type: none"> ▪ To make parts using various types of machines such as Milling, Grinding and Lathe; ▪ To read and interpret drawings (blueprint); and ▪ To select suitable tools for work piece. 	
Course Duration	▪ 1 year	
Enrolment Criteria	▪ Completed SPM	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Pasir Gudang ▪ ITI Kuala Terengganu ▪ ITI Labuan 	<ul style="list-style-type: none"> ▪ ITI Melaka ▪ ITI Kota Bahru ▪ ITI Jitra ▪ ITI Kuantan
Career Opportunity	Machinists are needed to operate, maintain & repair various types of machine & equipment. Opportunities available in engineering workshops, foundries, factories (dealing with machine equipment), shipyards & oil refineries.	
CNC Machining (CADD-CAM)	Course Code: A 03	
Introduction	This course provides trainees the knowledge to conduct and supervise high technology production machinery in industries such as machines controlled Computer Numerical Control (CNC). Participants will also learn to design products using Computer Aided Design & Computer Aided Manufacturing.	
Course Duration	▪ 15 months	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/ SPVM ▪ Pass in Bahasa Malaysia, Mathematics and Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Pasir Gudang ▪ ITI Muar ▪ ITI Pemas 	<ul style="list-style-type: none"> ▪ ITI Kangar ▪ ITI Kota Bahru ▪ ITI Kota Samarahan
Career Opportunity	Participants can work either in the engineering or manufacturing sectors. Job choices are either as a Draughtsman or as a CNC Machinist.	

Courses	Particulars
Tools and Die	Course Code: A 04
Introduction	<p>Trainees are taught the following:</p> <ul style="list-style-type: none"> ▪ To use hand tools for accurate measurement; ▪ Techniques of gas and arc welding; ▪ Metal fabrication; ▪ Maintenance and repair various types of machines; and ▪ To use pneumatic and hydraulic systems.
Course Duration	<ul style="list-style-type: none"> ▪ 1 year
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuantan ▪ ITI Pasir Gudang ▪ ITI IPoh ▪ ITI Kota Samarahan
Career Opportunity	<p>Job opportunities in this field are always in demand since such trained persons are the backbone of the industrial sector in this country. Upon completion of the course, participants can progress to either the engineering or manufacturing industries sector.</p>
Mouldmaker & Cutting Technology	Course Code: A 05
Introduction	<p>This course covers metrology, mould testing, heat treatment concepts and understanding of blue print. Trainees will also be trained on the characteristics of plastic materials, injection moulding processes, blow moulding, compression moulding and extrusion moulding. At the end of training, trainees will be able to make mould, repair and test mould making equipment to produce plastic and metal products. Additionally they also will acquire skills in the operation of machinery such as lathe, surface grinder, drilling, grinding, digital control, cut off, wire cut, jig borer, EDM and CNC.</p>
Course Duration	<ul style="list-style-type: none"> ▪ 1 year
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics, Physics and English
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Jitra ▪ ITI Ipoh ▪ ITI Muar
Career Opportunity	<p>The job opportunities in this field are huge due to the fact that this course directly supports the plastic and metal manufacturing industries.</p>
Foundry Technology	Course Code: A 06
Introduction	<p>The course content include basic education of both ferrous metal and non-ferrous metal characteristics, heat treatment, production, casting analysis, usage of furnace for patterning mould core and smelting of metal. Trainees will acquire skills in production and design of mould (to molten, clean and examine metal), measure, cut, rasp and make the metal based products by using both mechanical and electrical equipment.</p>
Course Duration	<ul style="list-style-type: none"> ▪ 15 months
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/ SPVM ▪ Pass in Bahasa Malaysia, Mathematics and Science
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Ipoh
Career Opportunity	<p>Job opportunity is available in the metal, steel & automotive sectors.</p>

Courses	Particulars	
Arc and Gas Welding	Course Code: A 08	
Introduction	<p>This course provides trainees the skills and knowledge</p> <ul style="list-style-type: none"> ▪ To cut materials using plasma cutting and arc and gas welding; ▪ To conduct welding on ferrous and non-ferrous metal sheets and pipes; ▪ To understand symbols and to interpret blue print; and ▪ To examine welded joint through nickel test on metal. 	
Course Duration	<ul style="list-style-type: none"> ▪ 1 year 	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Pasir Gudang ▪ ITI Kota Bahru ▪ ITI Melaka ▪ ITI Ipoh ▪ ITI Jitra 	<ul style="list-style-type: none"> ▪ ITI Kuantan ▪ ITI Labuan ▪ ITI Muar ▪ ITI Pedas ▪ ITI Kota Samarahan
Career Opportunity	<p>Job opportunities are available in industries related to structural / metal fabrication, industrial and electrical machine manufacturing and metal furniture industries. Additionally graduates can also work as welders in oil refineries, and motor vehicles workshop. With experience, graduates can also start their own welding workshops.</p>	
Metal Fabrication	Course Code: A 09	
Introduction	<p>This course provides trainees the skills and knowledge to produce, design, modify or repair metal products. Trainees will be capable to produce the structural plan for boiler, building, gate/grill, vehicle body, cabinet and various other metal-based products.</p>	
Course Duration	<ul style="list-style-type: none"> ▪ 15 months 	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics, Chemistry, Physics and English 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Ipoh ▪ ITI Pasir Gudang ▪ ITI Kuantan ▪ ITI Muar 	<ul style="list-style-type: none"> ▪ ITI Pedas ▪ ITI Kangar ▪ ITI Kota Samarahan
Career Opportunity	<p>Job opportunities are available in construction sector and industries related to shipping, armaments and fabricated metal products.</p>	
Gas Pipe Fitting	Course Code: A 10	
Introduction	<p>This course provides trainees the skills and knowledge</p> <ul style="list-style-type: none"> ▪ To understand layouts, create blueprints, install & maintain pipe installation system for both high-pressure & low-pressure volume; ▪ To make pipe installation system for oil, gas, vapour, water, refrigeration and other relevant chemicals used in industries; ▪ To read and analyse blue-print for isometric pipe, building plan, welding symbols and instrumentation; ▪ To operate cutting tools and welding machines; ▪ To repair and maintain pipe system valves pumps and related machinery. 	
Course Duration	<ul style="list-style-type: none"> ▪ 15 months 	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics, Chemistry, Physics and English 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Terengganu ▪ ITI Kota Samarahan 	

Courses	Particulars
Career Opportunity	Job opportunities exist in power plants and manufacturing industries related to chemical, gas and refrigeration and air-conditioning.
Automotive	Course Code: A 11
Introduction	This course provides trainees the skills and knowledge <ul style="list-style-type: none"> ▪ To undertake maintenance and repair of car engine, brake system, auto-wiring, wheel drive, steering system and air-conditioning system; ▪ To fix vehicle components and test-drive in accordance to safety techniques and the traffic ordinance requirements.
Course Duration	▪ 1 year
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Pasir Gudang ▪ ITI Kota Bahru ▪ ITI Jitra ▪ ITI Labuan
Career Opportunity	Job opportunities exist in workshops, service stations, assembly plants or trainees can even set up own workshop.
Industrial Product Design	Course Code: A 12
Introduction	This course provides trainees the skills and knowledge to produce industrial product design utilising high-technology equipment. Trainees will be trained in utilising machines controlled by CNC and to design products utilising CAD and CAM.
Course Duration	▪ 1 year
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/SPVM ▪ Credit in Mathematics & Drawing
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kota Kinabalu ▪ ITI Muar
Career Opportunity	The job opportunities in this field are massive since it is considered as the backbone of the industrial sector in this country. Upon completion of the course, participants can either join the engineering or manufacturing sector.
Heavy Commercial Vehicle	Course Code: A 13
Introduction	This course provides trainees the skills and knowledge to service, repair and fix heavy commercial vehicles (such as bus, lorry and truck). Additionally trainees will also learn to service electrical and electronic systems such as brakes, suspension and hydraulics system.
Course Duration	▪ 15 months
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/SPVM ▪ Pass in Mathematics, Physics and English
Institutes Offering	▪ ITI Jitra
Career Opportunity	Job opportunity exists in companies or workshops selling and repairing heavy commercial vehicles. With the rapid development in transport industry, more mechanics will be required to service and repair heavy commercial vehicles.

Courses	Particulars		
Quality Assurance Engineering	Course Code: A 14		
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To check, examine and control products quality according to standard; ▪ To read and understand plan/blue-print; ▪ To use conventional and computer based measurement equipment; ▪ To co-ordinate measuring machine, roundness tester, hardness tester and others; and ▪ To undertake statistical process control (SPC). 		
Course Duration	▪ 15 months		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics, Chemistry, Physics and English 		
Institutes Offering	▪ ITI Kuala Lumpur		
Career Opportunity	Job opportunity exists in manufacturing industries. With the rapid development in manufacturing and engineering industry, more skilled workers will be required to produce various machines and mechanical tools according to standards and specification.		
Mechanical CADD	Course Code: A 15		
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To prepare plan of one mechanical component (2 and 3 dimensions drawing) whether installation point and detail (assembly and detail drawing) ▪ To plan drawing according to scale and specific standard for one object. 		
Course Duration	▪ 15 months		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/SPVM ▪ Credit in Mathematics and Drawing 		
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Ipoh ▪ ITI Pemas ▪ ITI Kota Kinabalu 		
Career Opportunity	Job opportunity exists in manufacturing industries & engineering firms.		
Electrician	Course Code: B01		
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To install, operate and test single or triple phase wiring for both domestic and industrial use; ▪ To trace faults, rectify faults and service electrical equipment, including control & overhaul generators, motors & industrial electrical equipment in accordance to Electricity & Gas Supply Department. 		
Course Duration	▪ 2 years		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics or Science 		
Institutes Offering	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Kota Kinabalu ▪ ITI Kuala Terengganu ▪ ITI Labuan ▪ ITI Melaka </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ▪ ITI Kota Bharu ▪ ITI Ipoh ▪ ITI Jitra ▪ ITI Kota Samarahan </td> </tr> </table>	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Kota Kinabalu ▪ ITI Kuala Terengganu ▪ ITI Labuan ▪ ITI Melaka 	<ul style="list-style-type: none"> ▪ ITI Kota Bharu ▪ ITI Ipoh ▪ ITI Jitra ▪ ITI Kota Samarahan
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Career Opportunity	Job opportunity exists in electrical manufacturing, electrical engineering & electrical contracting sectors. The demand for trained electrician is very encouraging & will keep on increasing. Qualified electricians can start their own electrical contracting business.		

Courses	Particulars	
Refrigeration and Air Conditioning	Course Code: B02	
Introduction	This course provides trainees the skills and knowledge: <ul style="list-style-type: none"> ▪ To understand characteristics of compression, cooling and condensing systems; ▪ To install high-pressure piping, troubleshoot & repair electrical & mechanical faults & determine the cooling capacity of a room. 	
Course Duration	▪ 15 months	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics or Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Kuala Terengganu ▪ ITI Labuan 	<ul style="list-style-type: none"> ▪ ITI Kota Bahru ▪ ITI Ipoh ▪ ITI Jitra
Career Opportunity	Job opportunities exist in all sectors for maintenance of refrigeration and air-conditioning systems.	
Industrial Instrumentation	Course Code: B04	
Introduction	This course provides trainees the skills and knowledge: <ul style="list-style-type: none"> ▪ To control and analyse the flow, level, temperature and pressure of each process by using electronic, pneumatic and hydraulic systems; and ▪ To design and repair process systems so that the process is always stable. 	
Course Duration	▪ 15 months	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Pasir Gudang ▪ ITI Melaka 	<ul style="list-style-type: none"> ▪ ITI Kuantan ▪ ITI Kangar
Career Opportunity	Job opportunities exist in petrochemical plants, palm oil refineries, chemical manufacturing industries and other manufacturing industries that need skilled workers in temperature, pressure and steam control.	
Electronic Industry Technology	Course Code: B05	
Introduction	This course provides trainees the skills and knowledge : <ul style="list-style-type: none"> ▪ To learn PLC (Programmable Logic Control), basic pneumatic control, electrical concepts, active and passive elements, Ohm's Law, Binary System; ▪ To select and use active component in basic relay sequence control, instrumentation and control, and basic sensor engineering; and ▪ To undertake safety precaution & housekeeping in electronics machinery. 	
Course Duration	▪ 15 months	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics or Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Pasir Gudang ▪ ITI Kota Kinabalu ▪ ITI Kuantan 	<ul style="list-style-type: none"> ▪ ITI Melaka ▪ ITI Kota Bahru ▪ ITI Kangar
Career Opportunity	Job opportunity exists in electrical & electronics manufacturing industries. The demand for trained technician is very encouraging & will keep on increasing. Qualified graduates can start their own electronic-based business.	

Courses	Particulars		
Telecommunication Technology	Course Code: B06		
Introduction	This course provides trainees the skills and knowledge: <ul style="list-style-type: none"> ▪ To learn the characteristics of telecommunication systems; ▪ To install, examine and repair common carrier system (multiplex, radio and microwave), main telephone exchange switch (analogue and digital) and consumer components (telephones, PABX systems, mobile radio, global positioning systems); and ▪ To operate modern electrical and electronic equipment and to detect and make repairs. 		
Course Duration	▪ 15 months		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 		
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Melaka ▪ ITI Pedas 		
Career Opportunity	Job opportunity exists in telecommunications sector. Qualified graduates can start their own business in telecommunications servicing and repairs.		
Electro-Mechanical Maintenance	Course Code: B07		
Introduction	This course provides trainees the skills and knowledge to maintain electronic, computer and mechanical equipment.		
Course Duration	▪ 15 months		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 		
Institutes Offering	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ▪ ITI Muar ▪ ITI Pedas ▪ ITI Kangar </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ▪ ITI Kota Kinabalu ▪ ITI Kota Samarahan </td> </tr> </table>	<ul style="list-style-type: none"> ▪ ITI Muar ▪ ITI Pedas ▪ ITI Kangar 	<ul style="list-style-type: none"> ▪ ITI Kota Kinabalu ▪ ITI Kota Samarahan
<ul style="list-style-type: none"> ▪ ITI Muar ▪ ITI Pedas ▪ ITI Kangar 	<ul style="list-style-type: none"> ▪ ITI Kota Kinabalu ▪ ITI Kota Samarahan 		
Career Opportunity	Job opportunities exist in manufacturing and automation production industry.		
Computer Maintenance	Course Code: B08		
Introduction	This course provides trainees the skills and knowledge to install, maintain and repair computer network system.		
Course Duration	▪ 15 months		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 		
Institutes Offering	▪ ITI Kuala Lumpur		
Career Opportunity	Job opportunities exist in firms dealing with computer systems, data communication systems and networking systems.		
Industrial Automation	Course Code: B10		
Introduction	This course provides trainees the skills and knowledge : <ul style="list-style-type: none"> ▪ To understand the characteristics of electronic, microprocessor, robotic and automation systems; ▪ To design a stable, complete and efficient system using the above characteristics for industrial automation process. 		
Course Duration	▪ 15 months		
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 		

Courses	Particulars	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Muar ▪ ITI Pedas ▪ ITI Kangar 	
Career Opportunity	Job opportunities exist in manufacturing industries, airports and ports.	
Information Technology and Data Processing	Course Code: B11	
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To learn the characteristics of computer system i.e., both hardware and software components; ▪ To install operating system and application software; ▪ To configure hardware and software; ▪ To set up networking, implement inventory database using Microsoft Access, scan computer virus, project implementation, customer services, human resources management etc. 	
Course Duration	<ul style="list-style-type: none"> ▪ 15 months 	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics or Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kota Kinabalu ▪ ITI Muar ▪ ITI Pedas ▪ ITI Kangar 	<ul style="list-style-type: none"> ▪ ITI Kota Samarahan ▪ ITI Labuan ▪ ITI Kuala Terengganu
Career Opportunity	Job opportunities exist in all sectors that need skilled worker in information technology and data processing.	
CADD-Architecture	Course Code: C01	
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To learn building drafting plan and measurement; and ▪ To plan/design land and building development. 	
Course Duration	<ul style="list-style-type: none"> ▪ 15 months 	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur ▪ ITI Kuantan 	<ul style="list-style-type: none"> ▪ ITI Pedas ▪ ITI Kota Kinabalu
Career Opportunity	Job opportunities exist in civil engineering firms such as architectural and construction firms.	
Wood Based Building Construction	Course Code: C02	
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To utilise and maintain various types of wood based machines; ▪ To produce wood structure fitting for roofing, flooring and wood frames for door, window and wall. 	
Course Duration	<ul style="list-style-type: none"> ▪ 15 months 	
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science 	
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Labuan ▪ ITI Kuala Terengganu 	
Career Opportunity	Job opportunities exist in construction industry as site supervisor, clerical and others. Qualified graduates can also start their own sub-contracting or contracting business.	

Courses	Particulars
Building Construction	Course Code: C03
Introduction	This course provides trainees the skills and knowledge: <ul style="list-style-type: none"> ▪ To read construction plans and building plans; ▪ To learn the steps of building construction; and ▪ To learn wood based construction and pipe installation for plumbing (elective).
Course Duration	▪ 15 months
Enrolment Criteria	▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science
Institutes Offering	▪ ITI Labuan ▪ ITI Kuala Terengganu ▪ ITI Kota Bahru
Career Opportunity	Job opportunities exist in construction industry as site supervisor, clerical and others. Qualified graduates can also start their own sub-contracting or contracting business.
Plumbing and Sanitary	Course Code: C04
Introduction	This course provides trainees the skills and knowledge on plumbing including piping system and sewerage system.
Course Duration	▪ 15 months
Enrolment Criteria	▪ Completed SPM ▪ Pass in Bahasa Malaysia and Mathematics or Science
Institutes Offering	▪ ITI Labuan ▪ ITI Kuala Terengganu
Career Opportunity	Job opportunities exist in the construction sector. Qualified graduates can also start own business as plumber.
Furniture Technology	Course Code: C05
Introduction	This course provides trainees the skills and knowledge on wood fitting, and furniture making (such as table, chair, cupboard and rack).
Course Duration	▪ 15 months
Enrolment Criteria	▪ Completed SPM/ SPVM ▪ Pass in Bahasa Malaysia, Mathematics and Science
Institutes Offering	▪ ITI Kota Bahru
Career Opportunity	Job opportunities exist in furniture manufacturing industries or own furniture business.
Diploma In Building Technology	Course Code: C06
Introduction	This course provides trainees the skills and knowledge on basic work in building technology. Modules covered include planning work, plan preparation, purchasing and construction work (architecture, mechanical and electrical components).
Course Duration	▪ 3 years
Enrolment Criteria	▪ Completed SPM/ SPVM ▪ Pass in Bahasa Malaysia, Mathematics and Science
Institutes Offering	▪ ITI Kota Bahru
Career Opportunity	Job opportunities exist in construction sector and other related sectors that deal with building development.

Courses	Particulars
Printing Technology	Course Code: D01
Introduction	This course provides trainees the skills and knowledge for planning of printing material, utilising offset printing equipment, cutting, folding and binding a book.
Course Duration	<ul style="list-style-type: none"> ▪ 15 months
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/ SPVM ▪ Pass in Bahasa Malaysia, Mathematics and Science
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Kuala Lumpur
Career Opportunity	Job opportunities exist in printing and publishing industry.
Plastic Technology	Course Code: E01
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To learn the characteristics of injection moulding, blow moulding, extrusion, film blowing, compression moulding and vacuum forming; ▪ To learn the methods of plastic processes; ▪ To maintain machine tools and die; and ▪ To identify problems on machine processes, mix plastic resin and additives.
Course Duration	<ul style="list-style-type: none"> ▪ 1 year
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Mathematics, Chemistry, Physics and English
Institutes Offering	<ul style="list-style-type: none"> ▪ ITI Jitra ▪ ITI Melaka ▪ ITI Muar
Career Opportunity	Job opportunities exist in petrochemical industries and plastic production industries. As for the government sector, opportunities are available at SIRIM.

Section C2.2 ADTEC (MoHR)

Courses	Particulars
Welding Engineering Technology	Course Code: K01
Introduction	This course provides trainees the skills and knowledge on welding technology at SKM Level 3 and 4. The course follows the training syllabus from SKM NOSS under the Manpower Department (MoHR).
Course Duration	▪ 15 months
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Distinction in Bahasa Malaysia, Mathematics and Science ▪ Possess Malaysian Skill Certificate (SKM Level 2)
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Batu Pahat ▪ ADTEC Shah Alam
Career Opportunity	Job opportunities exist in metal based construction industries and structural engineering firms as well as machinery assembly plants.
Production Engineering Technology	Course Code: K02
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To utilise various types of cutter machines as well as CAD/CAM/CNC technology; ▪ To plan and create jigs and fixtures, mould tools and mould shaper (tool, die and mould); ▪ To learn production technology & management in manufacturing tools.
Course Duration	▪ 3 years
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM/SPVM ▪ Credits in Bahasa Malaysia, Mathematics/Additional Mathematics and Science/Physics ▪ Pass in English
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Batu Pahat ▪ ADTEC Kulim ▪ ADTEC Melaka
Career Opportunity	Job opportunities exist in manufacturing industries in the field of mould making and CNC machine operation.
Machining Engineering Technology	Course Code: K03
Introduction	<p>This course provides trainees the skills and knowledge on Machining course Level 3 and 4.</p> <ul style="list-style-type: none"> ▪ To utilise, maintain and repair conventional lathe, milling and grinding machinery; ▪ To utilise, maintain and repair CNC lathe, milling and grinding machinery; ▪ To utilise EDM Wire-Cut, Die Sinker and CAM Designing; and ▪ To learn supervisory and management skills in machining engineering. <p>This is a continuation from the following courses:</p> <ul style="list-style-type: none"> ▪ General Machining Level 1 and 2 from Industrial Training Institutes; and ▪ Production Machining Level 1 and 2 from MARA Skills Institutes
Course Duration	▪ 2 years

Courses	Particulars
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Completed SPM ▪ Pass in Bahasa Malaysia, Mathematics and Science ▪ Possess Malaysian Skill Certificate, (Level 1 and 2) in General Machining Field
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Batu Pahat ▪ ADTEC Kulim ▪ ADTEC Shah Alam
Career Opportunity	Job opportunities exist as Supervisor or Technician in metal, machinery and plastics manufacturing industries.
Quality Assurance Engineering Technology	Course Code: K04
Introduction	This course provides trainees the skills & knowledge in Quality Assurance Engineering Technology such as quality & TQM, TPM & ISO quality concepts.
Course Duration	<ul style="list-style-type: none"> ▪ 3 years (fulfil criteria a) ▪ 2 years (fulfil criteria b)
Enrolment Criteria	<ul style="list-style-type: none"> (a) Completed SPM with Pass in Mathematics, Science, Bahasa Malaysia and English, (b) Possess Malaysian Skill Certificate (Level 2) in Metal Machining Field / Mechanical Maintenance / Measurement Tool / Tool & Die / Foundry / Welding Technology / Metal Fabrication / Engineer Examination or related.
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Shah Alam
Career Opportunity	Job opportunities exist in manufacturing and service industries as Quality Assurance Assistant Engineer.
Mechatronics Engineering Technology	Course Code: K05
Introduction	This course provides trainees the skills and knowledge in Mechanical, Electronics and Electrical control in utilising microprocessor, microcontroller and automation in manufacturing industries. The curriculum is developed based on NOSS Industrial Manufacturing Assistant (H-175-4) and NOSS Mechatronic Assistant Engineer Level 4 (H-175-4).
Course Duration	<ul style="list-style-type: none"> ▪ 2 years
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Candidates are required to have Malaysian Skill Certificate level 2 in Industrial Automation / Industrial Electronic / Industrial Instrument / Electromechanical Maintenance or in related fields.
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Batu Pahat ▪ ADTEC Kulim ▪ ADTEC Shah Alam ▪ ADTEC Melaka
Career Opportunity	Job opportunities exist in manufacturing industry as Technical Assistant or Assistant Engineer in areas such as electronics, mechanical and automation especially in mechatronic field.
Electric Engineering Technology (Energy)	Course Code: L01
Introduction	This course provides trainees the skills and knowledge on NOSS NVTC Electric Chageman and Electric Chagemen (A4) syllabus set by Gas and Electric Supply Department (JBEG).
Course Duration	<ul style="list-style-type: none"> ▪ 6 months
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Possess certificate in PW1/PW2 (JBEG) or Malaysia Skills Certificate Level 2 or equivalent in related field.
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Shah Alam
Career Opportunity	Job opportunities exist in energy sector or electrical manufacturing sector.

Courses	Particulars
Electronic Engineering Technology	Course Code: L02
Introduction	This course provides trainees the skills and knowledge in utilising: <ul style="list-style-type: none"> ▪ Analogue Advanced Electronic and Digital Electronic Power; ▪ Machine and Driver Electronic parts; ▪ Electric and Electronic Level Control; ▪ Fluid Power Control; ▪ PLC and PLD; ▪ Robotic System and Automatic Control; ▪ Computer System and Microprocessor; and ▪ Computer Programming.
Course Duration	▪ 2 years
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Malaysian between 17 to 30 years ▪ Completed SPM/SPVM with Distinction in Bahasa Malaysia, Physics/ Science and Mathematics/Additional Mathematics Pass in English Language. OR ▪ Certificate Holder from ITI in related course (Level 2) OR ▪ Other qualifications based on the discretion of ADTEC
Institutes Offering	<ul style="list-style-type: none"> <li style="width: 50%;">▪ ADTEC Batu Pahat <li style="width: 50%;">▪ ADTEC Shah Alam <li style="width: 50%;">▪ ADTEC Kulim <li style="width: 50%;">▪ ADTEC Melaka
Career Opportunity	Job opportunities exist in electronic manufacturing industries as Supervisor or Technical Assistant.
Telecommunication Engineering Technology	Course Code: L03
Introduction	This course provides trainees the skills and knowledge in planning and managing activities related to telecommunication engineering technology. Trainees learn to design & maintain telecommunication devices for Customer Access Network, Switching and Transmitting, which is the backbone of the telecommunication system.
Course Duration	▪ 2 years
Enrolment Criteria	▪ Completed Malaysian Skill Certificate (SKM) Level 2 or equivalent in the area of telecommunication (installation or maintenance) or related fields.
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Kulim ▪ ADTEC Melaka
Career Opportunity	Job opportunities exist in telecommunications sector and electronics manufacturing industries. Graduates can also progress to a degree in Telecommunication Engineering Technology.
Computer Engineering Technology	Course Code: L04
Introduction	This course provides trainees the skills and knowledge to develop computer systems, graphics design, SQL database creation, computer maintenance, networking, telecommunication and image processing.
Course Duration	▪ 3 years
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Malaysian between 17 to 30 years ▪ Completed SPM/SPVM ▪ Credits in Bahasa Malaysia, Mathematics and Science ▪ Pass in English.

Courses	Particulars
Institutes Offering	▪ ADTEC Shah Alam
Career Opportunity	Job opportunities exist in advertising, multimedia software and website designing firms.
Refrigeration and Air Conditioning Engineering Technology	Course Code: L05
Introduction	This course provides trainees the skills and knowledge in refrigeration and air-conditioning technology (SKM Level 3 and 4)
Course Duration	▪ 3 years
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Malaysian between 17 to 30 years ▪ Completed SPM/SPVM ▪ Credits in Bahasa Malaysia, Mathematics and Science ▪ Pass in English.
Institutes Offering	▪ ADTEC Shah Alam
Career Opportunity	Job opportunities exist in Refrigeration and Air-Conditioning manufacturing and service industries.
Information Technology	Course Code: L06
Introduction	This course provides trainees the skills and knowledge in computer networking field (Networking System & Configuration of cabling network.
Course Duration	▪ 3 years
Enrolment Criteria	<ul style="list-style-type: none"> ▪ Malaysian between 17 to 30 years ▪ Completed SPM/SPVM ▪ Credits in Bahasa Malaysia, Mathematics/Additional Mathematics, Science / Physics ▪ Pass in English.
Institutes Offering	<ul style="list-style-type: none"> ▪ ADTEC Batu Pahat ▪ ADTEC Kulim ▪ ADTEC Melaka
Career Opportunity	Job opportunities exist in software development firms.

Section C2.3 JMTI (MoHR)

Courses	Particulars
Diploma in Mechatronic Engineering Technology	Course Code: J01
Introduction	This course provides trainees the skills and knowledge: <ul style="list-style-type: none"> ▪ To learn pneumatic controlling, hydraulic, servo-electro system and computer; ▪ To learn the latest controllable technology, maintenance techniques, sensor and analyst problems; and ▪ To learn efficient production line methods.
Course Duration	<ul style="list-style-type: none"> ▪ 3 years training (applicants qualify criteria a) ▪ 2 years training (applicants qualify criteria b)
Enrolment Criteria	Malaysian and not more than 26 years old. Those who have fulfilled the below requirement are qualified to apply. <ul style="list-style-type: none"> (a) SPM/SPVM with 5 credits in Bahasa Malaysia, English, Mathematics or Additional Mathematics, Physics or Science and any one of the other subject (b) Sijil Kemahiran Malaysia (SKM) at least LEVEL 2 in the related field with SPM/SPVM with 5 credits of the subject in (a)
Institutes Offering	<ul style="list-style-type: none"> ▪ JMTI
Career Opportunity	Job opportunities exist in all manufacturing industries, which have automation technology in their production line. With this qualification, they are eligible to apply for the position of Industrial Technician, Controllable Technician, Assistant Mechatronic Engineer, Assistant Robotic and Automation Engineer, Machines Maintenance Technician and Assistant Technical Supervisor
Diploma In Computer Engineering Technology	Course Code: J02
Introduction	This course provides trainees the skills and knowledge: <ul style="list-style-type: none"> ▪ To develop the computer system, graphic designing and preparing the database by using the SQL; and ▪ To undertake computer maintenance tasks and networking.
Course Duration	<ul style="list-style-type: none"> ▪ 3 years training (applicants qualify criteria a) ▪ 2 years training (applicants qualify criteria b)
Enrolment Criteria	Malaysian and not more than 26 years old. Those who have fulfilled the below requirement are qualified to apply. <ul style="list-style-type: none"> (a) SPM/SPVM with 5 credits in Bahasa Malaysia, English, Mathematics or Additional Mathematics, Physics or Science and any one of the other subject (b) Sijil Kemahiran Malaysia (SKM) at least LEVEL 2 in the related field with SPM/SPVM with 5 credits of the subject in (a)
Institutes Offering	<ul style="list-style-type: none"> ▪ JMTI
Career Opportunity	Job opportunities exist in various sectors. With this qualification, they are eligible to apply for the position of Computer Programmer , System Analyst Assistant, Computer System Technician, Computer Networking Technician and Data Processor

Courses	Particulars
Diploma in Electronic Engineering Technology	Course Code: J03
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To learn the fundamentals in electronic and controllable techniques; ▪ To utilise electronic technology in the production, manufacturing and telecommunication sectors; and ▪ To implement the testing, analysing the breakdown, maintenance and also designing the PCB circuit board, analysing the electronic circuit board, data analysis, data communication networking system development, PLC and sensor usage to control and maintenance.
Course Duration	<ul style="list-style-type: none"> ▪ 3 years training (applicants qualify criteria a) ▪ 2 years training (applicants qualify criteria b)
Enrolment Criteria	<p>Malaysian and not more than 26 years old. Those who have fulfilled the below requirement are qualified to apply.</p> <p>(a) SPM/SPVM with 5 credits in Bahasa Malaysia, English, Mathematics or Additional Mathematics, Physics or Science and any one of the other subject</p> <p>(b) Sijil Kemahiran Malaysia (SKM) at least LEVEL 2 in the related field with SPM/SPVM with 5 credits of the subject in (a)</p>
Institutes Offering	<ul style="list-style-type: none"> ▪ JMTI
Career Opportunity	<p>Job opportunities exist in the electrical and electronics sector. Graduates of this course have the opportunities to further study at degree level either locally or overseas. Positions eligible with this qualification are Assistant Electronic Engineer, Assistant Technical Supervisor, Assistant Electronic Circuit Designer, Engineering Technician, Production Technician and Assistant Automation Engineer.</p>
Diploma In Manufacturing Engineering Technology	Course Code: J04
Introduction	<p>This course provides trainees the skills and knowledge:</p> <ul style="list-style-type: none"> ▪ To learn the basic skill in machinery mechanics; ▪ To undertake planning, designing and handling the production operation tasks; and ▪ To utilise latest and current technology, equipment and software in production management such as CAD, CAM, CAE and CAT.
Course Duration	<ul style="list-style-type: none"> ▪ 3 years training (applicants qualify criteria a) ▪ 2 years training (applicants qualify criteria b)
Enrolment Criteria	<p>Malaysian and not more than 26 years old. Those who have fulfilled the below requirement are qualified to apply.</p> <p>(a) SPM/SPVM with 5 credits in Bahasa Malaysia, English, Mathematics or Additional Mathematics, Physics or Science and any one of the other subject</p> <p>(c) Sijil Kemahiran Malaysia (SKM) at least LEVEL 2 in the related field with SPM/SPVM with 5 credits of the subject in (a)</p>
Institutes Offering	<ul style="list-style-type: none"> ▪ JMTI
Career Opportunity	<p>Job opportunities exist in all manufacturing industries. With this qualification, they are eligible to apply for the position of CNC Programmer, Tool and Die & Mould Maker, CAD/CAM Designer, Production Technician, Automated Manufacturing System Designer, Maintenance Technician, CAE Analyst and Quality Controller</p>

Section C2.4 CIAST (MoHR)

National Instructor Training Programmes (NITP)

Enrolment Criteria

- must be Malaysian citizens , aged 26 years old and below
- Completed SPM/SPVM with credits in Bahasa Malaysia, Mathematics/ Additional Mathematics and science/physics, and pass in English and any other one subject; OR (criteria a)
- Completed SPM/SPVM with pass in Bahasa Malaysia, Mathematics/ Additional Mathematics, Science/Physics and English and Malaysian Skill Certificate Level 2 in a related field (criteria b)

Duration

- (a) 36 months
- (b) 24 months

Particulars	
Production Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the production engineering technology skills for both the public and private skill training institutions. <ul style="list-style-type: none"> ▪ Prepare student with theory and practical knowledge in a real circumstances ▪ Prepare teaching plan and work schedule
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ National Vocational Teacher ▪ Assistant Vocational Training Officer ▪ Design & Mould Making Technician ▪ Design dan Tool & Die Making Technician ▪ Conventional & CNC machine Technician ▪ CAD CAM / AutoCAD / SUFFCAM & MasterCAM Technician
Machining Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the production engineering technology skills for both the public and private skill training institutions.
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Tutor in Private or Public Skills Institutes ▪ CNC Programmer ▪ CAD/CAM Designer ▪ Machining Technician ▪ Maintenance Technician ▪ QA/QC Controller
Welding Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the welding engineering technology skills for both the public and private skill-training institutions. <ul style="list-style-type: none"> ▪ Provide and conduct instructor training (pedagogical)
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ National Vocational Teacher ▪ Welding Specialist ▪ Industrial welder ▪ Related field

Particulars	
Automotive Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the automotive engineering technology skills for both the public and private skill-training institutions. <ul style="list-style-type: none"> ▪ Provide and conduct instructor training (pedagogical)
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ National Vocational Teacher ▪ Automotive Mechanic ▪ Self-employed or work in automotive industry
Electronic Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the electronics engineering technology skills for both the public and private skill training institutions. <ul style="list-style-type: none"> ▪ Provide and conduct instructor training (pedagogical)
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ National Vocational Teacher ▪ Electronic Engineering Technician ▪ Further study to tertiary level
Telecommunication Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the telecommunication engineering technology skills for both the public and private skill training institutions. <ul style="list-style-type: none"> ▪ Provide and conduct instructor training (pedagogical)
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ Telecommunication Engineering Technology Technician or ▪ Telecommunication Engineering Assistant Engineer ▪ Telecommunication Engineering Technology Engineer ▪ Further study to tertiary level
Mechatronic Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the mechatronics engineering technology skills for both the public and private skill training institutions.
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ Mechatronic Engineering Technology Technician or ▪ Further study to tertiary level
Information Technology	
Introduction	Objective of this course is to educate and produce future trainers with the production engineering technology skills for both the public and private skill training institutions. <ul style="list-style-type: none"> ▪ Provide and conduct instructor training (pedagogical) ▪ Familiar in teaching technic application ▪ Prepare student with theory and practical knowledge in a real circumstances
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Tutor in ITI, JMTI, CIAST and ADTEC or ▪ Tutor in private or public training institution

Particulars	
Computer Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the computer engineering technology skills for both the public and private skill training institutions.
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ System Analysing Assistant ▪ Computer System Technician ▪ Computer Network Technician
Quality Assurance Engineering Technology	
Introduction	Objective of this course is to educate and produce future trainers with the quality assurance engineering technology for both the public and private skill training institutions.
Career Opportunity	With this qualification they are eligible to work as: <ul style="list-style-type: none"> ▪ Vocational Training Assistant Officer ▪ Standards Technician ▪ Quality Control Technician

Section C2.5 Polytechnics (MoHE)

Certificate Courses

Enrolment Criteria

- Applicant must be a Malaysian citizen
- Passed in SPM /SPVM
- A pass in Bahasa Malaysia
- A credit in Mathematics or Additional Mathematics and a pass in any one of the subjects or;
- A pass in Mathematics or Additional Mathematics and a credit in any one of the other subjects

Duration: 2 years

Diploma Courses

Enrolment Criteria

- Applicant must be a Malaysian citizen
- Passed in SPM /SPVM
- A pass in Bahasa Malaysia
- A pass in English
- A credit from any of these subjects: Mathematics, Modern Mathematics, Additional Mathematics
- Credits in any four of the other subjects

Duration: 3 years

Courses	Particulars	
Certificate in Civil Engineering	Course Code: S04	
Introduction	Students in this course are equipped with the knowledge in civil engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic MAS ▪ Polytechnic Kota Bahru ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson ▪ Polytechnic Kota Kinabalu 	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam ▪ Polytechnic Melaka ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Sabak Bernam
Certificate in Building Services Engineering	Course Code: S05	
Introduction	Students in this course are equipped with the knowledge in basic building services engineering and field related.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic MAS ▪ Polytechnic Kuching 	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam ▪ Polytechnic Tanjung Malim
Certificate in Woodbased Technology	Course Code: S06	
Introduction	Students in this course are equipped with the knowledge in woodbased technology.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam 	

Courses	Particulars	
Certificate in Town Planning	Course Code: S07	
Introduction	Students in this course are equipped with the knowledge in town planning.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic MAS 	
Certificate in Architecture	Course Code: S08	
Introduction	Students in this course are equipped with the knowledge in architecture.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic MAS ▪ Polytechnic Port Dickson 	
Certificate in Material Measurement	Course Code: S09	
Introduction	Students in this course are equipped with the knowledge in material measurement.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic MAS ▪ Polytechnic Kota Bahru 	<ul style="list-style-type: none"> ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Tanjung Malim
Certificate in Land Survey	Course Code: S10	
Introduction	Students in this course are equipped with the knowledge in land survey.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah 	<ul style="list-style-type: none"> ▪ Polytechnic Kuching ▪ Polytechnic Kulim ▪ Polytechnic Merlimau
Certificate in Electrical Engineering (Petroleum)	Course Code: S18	
Introduction	Students in this course are equipped with the knowledge in electrical engineering (petroleum).	
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kuching 	
Certificate in Electronic Engineering (Petroleum)	Course Code: S22	
Introduction	Students in this course are equipped with the knowledge in electronic engineering (petroleum).	
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kuching 	
Certificate in Information Technology	Course Code: S25	
Introduction	Students in this course are equipped with the knowledge in information technology.	
Extra Enrolment	<ul style="list-style-type: none"> ▪ Not colour blind 	

Courses	Particulars	
Criteria		
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic MAS ▪ Polytechnic Kuching ▪ Polytechnic Johor Bahru ▪ Polytechnic Seberang Perai 	<ul style="list-style-type: none"> ▪ Polytechnic Kuala Terengganu ▪ Polytechnic Dungun ▪ Polytechnic Perlis ▪ Polytechnic Muadzam Shah
Certificate in Electrical and Electronic Engineering	Course Code: S26	
Introduction	Students in this course are equipped with the knowledge in electrical and electronic engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic MAS ▪ Polytechnic Kota Bahru ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Shah Alam ▪ Polytechnic Johor Bahru 	<ul style="list-style-type: none"> ▪ Polytechnic Seberang Perai ▪ Polytechnic Melaka ▪ Polytechnic Kuala Terengganu ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Sabak Bernam ▪ Polytechnic Perlis
Certificate in Mechanical Engineering	Course Code: S30	
Introduction	Students in this course are equipped with the knowledge in mechanical engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic MAS ▪ Polytechnic Kota Bahru ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Shah Alam 	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Seberang Perai ▪ Polytechnic Melaka ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Perlis
Certificate in Mechanical Engineering (Automotive)	Course Code: S31	
Introduction	Students in this course are equipped with the knowledge in automotive mechanical engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Kota Bahru 	<ul style="list-style-type: none"> ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson ▪ Polytechnic Dungun ▪ Polytechnic Tanjung Malim
Certificate in Mechanical Engineering (Air-condition & ...)	Course Code: S34	

Courses	Particulars	
Refrigeration)		
Introduction	Students in this course are equipped with the knowledge in air-condition and refrigeration mechanical engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Kuching 	
Certificate in Mechanical Engineering (Agricultural)	Course Code: S35	
Introduction	Students in this course are equipped with the knowledge in agricultural mechanical engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kota Bahru 	
Certificate in Mechanical Engineering (Petroleum)	Course Code: S36	
Introduction	Students in this course are equipped with the knowledge in petroleum mechanical engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kuching 	
Certificate in Chemical and Process Engineering	Course Code: S42	
Introduction	Students in this course are equipped with the knowledge in chemical and process engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kuching 	
Certificate in Graphic Design	Course Code: S70	
Introduction	Students in this course are equipped with the knowledge in graphic design.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Muadzam Shah 	
Certificate in Industry Design	Course Code: S71	
Introduction	Students in this course are equipped with the knowledge in industry design.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru 	
Certificate in Food Technology	Course Code: S90	
Introduction	Students in this course are equipped with the knowledge in food technology.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Haji Ahmad Shah 	
Certificate in Data Processing	Course Code: S54	
Introduction	Students in this course are equipped with the knowledge in data processing.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Haji Ahmad Shah 	<ul style="list-style-type: none"> ▪ Polytechnic Seberang Perai ▪ Polytechnic Perlis
Certificate in Business Study	Course Code: S55	
Introduction	Students in this course are equipped with the knowledge in business study.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar 	<ul style="list-style-type: none"> ▪ Polytechnic Melaka

Course	Particulars	
	<ul style="list-style-type: none"> ▪ Polytechnic MAS ▪ Polytechnic Kota Bahru ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Shah Alam ▪ Polytechnic Kuching ▪ Polytechnic Seberang Perai 	<ul style="list-style-type: none"> ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Perlis ▪ Polytechnic Muadzam Shah
Certificate in Book Keeping	Course Code: S56	
Introduction	Students in this course are equipped with the knowledge in book keeping.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Kota Bahru ▪ Polytechnic Kuching 	<ul style="list-style-type: none"> ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Seberang Perai ▪ Polytechnic Melaka ▪ Polytechnic Muadzam Shah
Certificate in Hotel Management & Catering	Course Code: S65	
Introduction	Students in this course are equipped with the knowledge in hotel management and catering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Sabak Bernam 	<ul style="list-style-type: none"> ▪ Polytechnic Perlis
Certificate in Tourist Management	Course Code: S66	
Introduction	Students in this course are equipped with the knowledge in tourist management.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Perlis 	<ul style="list-style-type: none"> ▪ Polytechnic Muadzam Shah
Diploma in Civil Engineering	Course Code: D 04	
Introduction	Students in this course are equipped with the knowledge in civil engineering specification in water, building and highway study.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kota Bharu ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson 	<ul style="list-style-type: none"> ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Shah Alam ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Sabak Bernam
Diploma in Building Services Engineering	Course Code: D 05	
Introduction	Students in this course are equipped with the knowledge in building services engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam 	
Diploma in Wood-based Technology	Course Code: D 06	
Introduction	Students in this course are equipped with the knowledge in woodbased technology, mainly in furniture industries.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam 	<ul style="list-style-type: none"> ▪ Polytechnic Kota Kinabalu

Courses	Particulars		
Diploma in Architecture	Course Code: D 08		
Introduction	Students in this course are equipped with the knowledge in architecture (including computer aided architecture)		
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Merlimau 		
Diploma in Material Measurement	Course Code: D 09		
Introduction	Students in this course are equipped with the knowledge in material measurement. Students are trained to give clients financial consultation in building planning, management and maintenance.		
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kota Bharu ▪ Polytechnic Kota Kinabalu 		
Diploma in Land Survey	Course Code: D 10		
Introduction	Students in this course are equipped with the knowledge in land survey. They are trained in engineering measurement, cadaster measurement, photogrammetry, geodesy, geography information system and related subjects.		
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Kulim 		
Diploma in Electrical Engineering (Land Survey)	Course Code: D 16		
Introduction	Students in this course are equipped with the knowledge in electrical engineering and skills in land survey. They are trained in collecting, processing and analysing earth topography using information technology systems.		
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 		
Institutes Offering	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kota Kinabalu </td> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> ▪ Polytechnic Tanjung Malim ▪ Polytechnic Merlimau ▪ Polytechnic Kulim </td> </tr> </table>	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kota Kinabalu 	<ul style="list-style-type: none"> ▪ Polytechnic Tanjung Malim ▪ Polytechnic Merlimau ▪ Polytechnic Kulim
<ul style="list-style-type: none"> ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kota Kinabalu 	<ul style="list-style-type: none"> ▪ Polytechnic Tanjung Malim ▪ Polytechnic Merlimau ▪ Polytechnic Kulim 		
Diploma in Electronic Engineering (Control)	Course Code: D 19		
Introduction	Students in this course are equipped with the knowledge in electronic engineering (control). They will learn about electronic industry, control system, microcomputer system, CAD, automatic system and electric motor control.		
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 		
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam ▪ Polytechnic Johor Bahru 		
Diploma in Electronic Engineering (Computer)	Course Code: D 20		
Introduction	Students in this course are equipped with the knowledge in computer hardware and software and also fields related to communication. Subjects taught are Mathematics, Electronic, Electronic Measurement and		

Courses	Particulars	
	Instrumentation, Electrical Installation, Telecommunication Programming, Electronic Techniques and Computer System Maintenance.	
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Seberang Perai ▪ Polytechnic Dungun 	<ul style="list-style-type: none"> ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Sabak Bernam
Diploma In Electronic Engineering (Medicine)	Course Code: D 23	
Introduction	Students in this course are equipped with the knowledge in electronic engineering in medicine. Subjects taught are microprocessing system, micro control, physiology, physiology measurement, medicine imaging, and related subjects.	
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam 	
Diploma in Electronic Engineering	Course Code: D 24	
Introduction	Students in this course are equipped with the knowledge in electronic engineering. Subjects taught are microprocessing system & micro control, physiology, physiology control, clinical use system and related subjects.	
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind 	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kota Bharu ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson ▪ Polytechnic Kota Kinabalu 	<ul style="list-style-type: none"> ▪ Polytechnic Shah Alam ▪ Polytechnic Johor Bahru ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Sabak Bernam ▪ Polytechnic Perlis
Diploma in Information Technology	Course Code: D 25	
Introduction	This course exposes the students to the concept of Information Technology and imparts knowledge as well as skills regarding components that make up Information Technology. The course curriculum emphasises on a few aspects of computer-based technology namely Operating System, Programming, Algorithm and Data Structure, Multimedia and Data Communication and also Information System.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Kuching ▪ Polytechnic Johor Bahru 	<ul style="list-style-type: none"> ▪ Polytechnic Seberang Perai ▪ Polytechnic Dungun

Courses	Particulars	
Diploma in Mechanical Engineering	Course Code: D 30	
Introduction	This course exposes students with the latest technology on Mechanical Engineering.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic Sultan Haji Ahmad Shah ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson 	<ul style="list-style-type: none"> ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Shah Alam ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim
Diploma in Mechanical Engineering (Automotive)	Course Code: D 31	
Introduction	Students in this course are equipped with the knowledge in automotive mechanical engineering. Subjects taught are automotive technology, mobile hydraulic, service centre management, vehicle electric and electronic equipment and some elective subjects.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kota Bharu ▪ Polytechnic Dungun 	
Diploma in Mechanical Engineering (Plant)	Course Code: D 32	
Introduction	This course aims to expose students to theory and practical, enabling them to manage and monitor power plants for the public and private sectors. Besides the basic subjects in mechanical line, students will also study subjects like Plant Engineering Technology, Plant Engineering Process, Power Plant and also plant maintenance methods.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic MAS ▪ Polytechnic Seberang Perai 	
Diploma in Mechanical Engineering (Production)	Course Code: D 33	
Introduction	The course aims to expose students to industrial process or techniques and also the usage of modern equipment like CNC machines, Manufacturing System, Plastic Moulding Process, Manufacturing System, Instrumentation and Control, Hydraulic and Pneumatic, Engineering Mechanical and Material Technology.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Sultan Abdul Halim Mu'adzam Shah ▪ Polytechnic Kuching ▪ Polytechnic Port Dickson ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Dungun 	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Seberang Perai ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim ▪ Polytechnic Merlimau
Diploma in Mechanical Engineering (Air Conditioning and Refrigeration)	Course Code: D 34	

Courses	Particulars
Introduction	Students in this course are equipped with the knowledge in air-conditioning and refrigeration mechanical engineering. Subjects taught are air-conditioning and refrigeration technology, control system and air conditioning & refrigeration system design.
Institutes Offering	▪ Polytechnic Ungku Omar
Diploma In Mechanical Engineering (Agricultural)	Course Code: D 35
Introduction	Students in this course are equipped with the knowledge in agricultural mechanical engineering. Subjects taught are sanitation and sewerage, farm structure, and related elective subjects.
Institutes Offering	▪ Polytechnic Kota Bharu
Diploma In Mechanical Engineering (Packaging)	Course Code: D 37
Introduction	Students in this course are equipped with the knowledge in packaging mechanical engineering. Subjects taught are packaging science, packaging principle, packaging producing process, basics in printing, packaging manufacturing operation and other related subjects.
Institutes Offering	▪ Polytechnic Shah Alam
Diploma In Mechanical Engineering (Plastic)	Course Code: D 38
Introduction	Students in this course are equipped with the knowledge in plastic mechanical engineering. Beside basic mechanical engineering subjects, students will also be taught plastic technology & other related elective subjects.
Institutes Offering	▪ Polytechnic Sultan Salahuddin Abdul Aziz Shah ▪ Polytechnic Dungun
Diploma In Mechanical Engineering (Textile)	Course Code: D 39
Introduction	This course exposes students to mechanical engineering with specialisation in textile engineering and maintenance of the equipment. Beside the basic mechanical engineering subjects, students will also be taught Textile Science, Fibre Technology, Fabric and Yarn Manufacturing, Fabric Design, Textile Quality Control, Industrial Management and also Instrumentation and Control System. This course aims to produce semi-professional workers or technicians who are directly involved in textile industry. The graduates of this course will be able to work in public and private sectors as process equipment, research and development, quality control, and manufacturing supervisors/technicians. The students will undergo industrial training in the fourth semester to equip them with working experience in related fields.
Institutes Offering	▪ Polytechnic Seberang Perai
Diploma In Mechanical Engineering (Material)	Course Code: D 40
Introduction	This course exposes students to mechanical engineering with specialisation in material engineering and maintenance of the equipment. Beside the basic mechanical engineering subjects, students will also be taught metallurgy,

Courses	Particulars	
	industrial management, quality control, ceramic technology, glass and composite, polymer technology and a few elective subjects.	
Institutes Offering	▪ Polytechnic Johor Bahru	
Diploma in Mechatronic Engineering	Course Code: D 41	
Introduction	Students in this course are equipped with the knowledge in mechatronic engineering. Besides, a few elective subjects are taught.	
Extra Enrolment Criteria	▪ Not colour blind	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Ungku Omar ▪ Polytechnic MAS ▪ Polytechnic Kota Bahru ▪ Polytechnic Port Dickson ▪ Polytechnic Kota Kinabalu 	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Dungun ▪ Polytechnic Merlimau ▪ Polytechnic Tanjung Malim ▪ Polytechnic Kulim
Diploma in Graphic Design	Course Code: D 70	
Introduction	This course exposes students to graphic design with specialisation in advertising, corporate communication and multimedia application. Beside the basic subjects, students will also be taught elective subjects and skills in using technology related to graphic design.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Muadzam Shah 	
Diploma in Industry Design	Course Code: D 71	
Introduction	Students in this course are equipped with the knowledge in industry design, engineering design, 3D design, workshop policy and industry design management. They are also taught with a few elective subjects.	
Institutes Offering	▪ Polytechnic Johor Bahru	
Marine Engineering	Course Code: D 80	
Introduction	Students in this course are equipped with knowledge in marine engineering.	
Extra Enrolment Criteria	<ul style="list-style-type: none"> ▪ Not colour blind ▪ Male only 	
Institutes Offering	▪ Polytechnic Ungku Omar	
Diploma in Food Technology	Course Code: D 90	
Introduction	Students in this course are equipped with the knowledge in food technology. Subject taught in food technologies are chemistry, microbiology, processing technology, quality control and food product improvement.	
Institutes Offering	▪ Polytechnic Sultan Haji Ahmad Shah	
Diploma in Hotel Management and Catering	Course Code: D 65	
Introduction	Students in this course are equipped with the knowledge in hotel management and catering. Other related subjects taught in operation department are servicing counter, cleaning, doobby, kitchen and restaurant. Supporting subjects are interpersonal communication, sanitation, marketing, accounting and computer skill.	
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Kota Kinabalu ▪ Polytechnic Johor Bahru 	<ul style="list-style-type: none"> ▪ Polytechnic Merlimau ▪ Polytechnic Sabak Bernam

Courses	Particulars
Diploma in Tourist Management	Course Code: D 66
Introduction	Students in this course are equipped with the knowledge in tourist management. Subjects taught are recreation tourist, reservation and ticketing, MICE management, interpretation, interpersonal communication, tourist driving technique, tourist agency management, strategic management and tourist planning.
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru ▪ Polytechnic Sabak Bernam
Diploma in Fashion Design and Apparel	Course Code: D 67
Introduction	Students in this course are equipped with the knowledge in fashion design and apparel. Subjects taught are fashion design, dressmaking technology, textile design and fabric research.
Institutes Offering	<ul style="list-style-type: none"> ▪ Polytechnic Johor Bahru

Section C2.6 Community Colleges (MoHEd)

Enrolment Criteria:

- Applicants must be Malaysian
- Pass the Sijil Peperiksaan Malaysia (SPM) or Sijil Peperiksaan Malaysia (Vocational) (SPVM)
- Obtain a pass in the Bahasa Malaysia
- Have sat for either the mathematics or additional mathematics subject
- Have sat for any Science-related or technical subjects at SPM/SPVM level

Course Duration: 2 years

Courses	Particulars
Certificate in Creative Multimedia (Animation)	Course Code: V01
Introduction	This course exposes the students to the concept of animation creative multimedia and imparts knowledge as well as skills regarding components that make up animation creative multimedia.
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Kuantan ▪ College Community Teluk Intan ▪ College Community Kuala Langat ▪ College Community Kepala Batas
Certificate in Integrated Manufacturing Technology	Course Code: V02
Introduction	This course exposes the students into automation and manufacturing field. Concentrate more on hands on practising (practical-75%, theory-25%).
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Kepala Batas ▪ College Community Segamat ▪ College Community Kuantan
Certificate in Automotive	Course Code: V03
Introduction	This course aims to expose students to automation, such as vehicle engine. 75% are hands on practising.
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Darul Aman ▪ College Community Sungai Petani ▪ College Community Bukit Beruang ▪ College Community Kepala Batas ▪ College Community Kuala Terengganu ▪ College Community Tawau
Certificate in Architecture Drafting	Course Code: V04
Introduction	This course aims to expose students to the field in architecture drafting using latest drawing techniques manually or through CADD. 75% are hands on practising.

Courses	Particulars	
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Darul Aman ▪ College Community Kuantan ▪ College Community Teluk Intan ▪ College Community Arau ▪ College Community Bayan Baru ▪ College Community Kepala Batas 	<ul style="list-style-type: none"> ▪ College Community Sabak Bernam ▪ College Community Kuala Langat ▪ College Community Kuala Terengganu ▪ College Community Kuching
Certificate in Building Maintenance	Course Code: V05	
Introduction	This course exposes students to the area of building maintenance. The course trains students in the maintenance and repairs of air-condition and air ventilation systems, electrical and mechanical maintenance of air-conditioning systems, water supply and water pump and pipe system, electrical and wiring system, as well as health and safety systems.	
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Kota Tinggi 	
Certificate in Electrical Technology (Installation and Servicing)	Course Code: V06	
Introduction	This course exposes students in both theoretical and practical aspects in electrical and electronic technology. Modules include basic knowledge in electrical and electronic systems, installation and servicing of computer control systems, computer hardware and related peripherals. Other modules include motor installation, PLC, motor maintenance, switchboard and switchgear maintenance and computer application maintenance. Students will also be exposed for both domestic and industrial installation.	
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Darul Aman ▪ College Community Bukit Beruang ▪ College Community Jempol ▪ College Community Jelebu ▪ College Community Kuantan ▪ College Community Bentong ▪ College Community Chenderoh 	<ul style="list-style-type: none"> ▪ College Community Arau ▪ College Community Bayan Baru ▪ College Community Sabak Bernam ▪ College Community Kuala Langat ▪ College Community Kuala Terengganu ▪ College Community Tawau
Certificate in Computer System and Support	Course Code: V07	
Introduction	This course exposes the students to the concept of computer system and support and imparts knowledge as well as skills regarding components that make up computer system and support. The course curriculum emphasises on a few aspects of computer based technology.	
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Darul Aman ▪ College Community Selandar ▪ College Community Jempol ▪ College Community Bayan Baru 	<ul style="list-style-type: none"> ▪ College Community Sabak Bernam ▪ College Community Hulu Selangor ▪ College Community Tawau

Courses	Particulars
Certificate Hotel and Catering	Course Code: V08
Introduction	This course exposes students in skills required in the field of hotel and catering. Modules include kitchen operations, preparation and presentation of food and beverage and housekeeping activities. Students will also be taught marketing and promotional techniques, business and accounting techniques as well as customer relation techniques. This will equip them with the necessary skills if they decide to start their own business.
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Sungai Petani ▪ College Community Bukit Beruang ▪ College Community Kuantan ▪ College Community Rompin ▪ College Community Chenderoh
Certificate Fashion and Apparel Design	Course Code: V09
Introduction	This course focusses on the design and manufacturing of apparels and garments. The course exposes students to understand the intellectual and artistic aspects of fashion design for both domestic and international standards. The course is mostly practical oriented.
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Bukit Beruang ▪ College Community Sabak Bernam ▪ College Community Kuala Terengganu ▪ College Community Kuching
Certificate In Food Processing and Quality Control	Course Code: V10
Introduction	This course covers skills training in food processing and food quality control. Modules include processing and packaging of all categories of food especially those involving local agricultural produce. Students are trained in processing and packaging of fruits, vegetables, marine produce, meat, poultry, bakery and snacks. Additionally, students will also be exposed to the following aspects: quality control (during and after processing), nutritional values, testing and analysing food, legal issues related to food and marketing of processed food.
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Sabak Bernam
Certificate in Construction Technology	Course Code: V11
Introduction	This course exposes students to skills in construction technology. Modules include construction management, quantity and cost estimates, understanding and preparing blue-prints and building plans (both manual and Auto-CAD), maintenance aspects in construction sites and quality control tests at the various aspects and stages of construction.
Institutes Offering	<ul style="list-style-type: none"> ▪ College Community Segamat ▪ College Community Kuala Terengganu
Certificate in Information Technology	Course Code: V12
Introduction	This course exposes the students to the concept of information technology and imparts knowledge as well as skills regarding components that make up information technology. The course curriculum emphasises on a few aspects of computer based technology.