

## STANDARD KEMAHIRAN PEKERJAAN KEBANGSAAN (NATIONAL OCCUPATIONAL SKILLS STANDARD)

SIGNAGE SUPERVISION LEVEL 3



JABATAN PEMBANGUNAN KEMAHIRAN KEMENTERIAN SUMBER MANUSIA, MALAYSIA SIGNAGE SUPERVISION LEVEL 3

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#### STANDARD PRACTICE

### NATIONAL OCCUPATIONAL SKILLS STANDARD (NOSS) FOR SIGNAGE SUPERVISION LEVEL 3

#### 1. INTRODUCTION

This is a revised NOSS for following signage through the new format stipulated by JPK. There is a high demand for skilled personnel in this field as the industry is developing rapidly. Signage is a very important communication tool, to convey information to the receiver, so that they can make cognitive decisions based on the information provided. Signage can be classified into functions such as informative signage, directional signage and identification signage.

Signage personnel work starts from study requirement from the client to the signage installation work at site. The responsibilities include site survey, material preparation, production, quality control and installation. The person who is competent in signage site survey should be able to carry out an inventory for data collection, record details, prepare analysis of data, diagramming input for a conceptual output, conclude all analysis and evaluate data to produce site survey report. The person who is competent in signage material preparation should be able to accomplish time delivery, managing the supply and purchase the material/product in order to provide a material/product for production works according to the clients' requirement and specification. In addition, the person who is competent in signage production should be able to prepare manpower, material & equipment, fabricate signage components, assemble signage components, perform quality checking as well as perform signage packaging and labelling. The person who is competent in signage quality control should be able to review procedure, establish checklist, inspect activities and control defect during and after production and installation to ensure the specification of the product is followed. Besides, they also responsible to conduct testing and commissioning process by establishing checklist according to manufacturers' operation manual. The person who is competent in signage installation should be able to prepare signage installation work information, carry out site preparation, installation and maintenance in accordance with specification.

Signage work is recognised globally and hence there is a need for properly trained personnel at level 2 and 3. Having a competent workforce will renounce Malaysia as a centre of excellence in the region and help towards inward investment in the country. Consequently, the development of this NOSS at Level 2 and 3 (*Refer Figure 1.1* Occupational Structure for Signage Production and Installation) is essential so that the sub sector will have complete standards and guidelines to be used by the industry.

### 2. OCCUPATIONAL STRUCTURE

SECTOR	BUILDING AND CONSTRUCTION	
SUB SECTOR	ARCHITECTURAL AND BUILDING	
LEVEL/ AREA	SIGNAGE PRODUCTION AND INSTALLATION	
LEVEL 5	SIGNAGE MANAGER	
LEVEL 4 SIGNAGE DESIGNER		
LEVEL 3	SIGNAGE SUPERVISOR	
LEVEL 2 SIGNAGE FABRICATOR		
LEVEL 1 SIGNAGE INSTALLER		

Figure 1.1 Occupational Structure for Signage Production And Installation

### 3. OCCUPATIONAL AREA STRUCTURE

SECTOR	BUILDING AND CONSTRUCTION		
SUB SECTOR	ARCHITECTURAL AND BUILDING		
LEVEL/ AREA	SIGNAGE PRODUCTION AND INSTALLATION		
LEVEL 5	SIGNAGE MANAGEMENT		
LEVEL 4	4 SIGNAGE DESIGNING		
LEVEL 3	SIGNAGE SUPERVISION		
LEVEL 2 SIGNAGE PRODUCTION AND INSTALLATION			
LEVEL 1	-NIL-		

Figure 1.2 Occupational Area Structure for Signage Production and Installation

### 4. DEFINITION OF COMPETENCY LEVEL

The NOSS is developed for various occupational areas. Candidates for certification must be assessed and trained at certain levels to substantiate competencies. Below is a guideline of each NOSS Level as defined by the Department of Skills Development, Ministry of Human Resources, Malaysia.

Malaysia Skills Certificate Level 1: (Operation and Production Level)	Competent in performing a range of varied work activities, most of which are routine and predictable.
Malaysia Skills Certificate Level 2: (Operation and Production Level)	Competent in performing a significant range of varied work activities, performed in a variety of contexts. Some of the activities are non-routine and required individual responsibility and autonomy.
Malaysia Skills Certificate Level 3: (Supervisory Level)	Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non- routine. There is considerable responsibility and autonomy and control or guidance of others is often required.
Malaysia Skills Diploma Level 4: (Executive Level)	Competent in performing a broad range of complex technical or professional work activities performed in a wide variety of contexts and with a substantial degree of personal responsibility and autonomy. Responsibility for the work of others and allocation of resources is often present.
Malaysia Skills Advanced Diploma Level 5: (Managerial Level)	Competent in applying a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts. Very substantial personal autonomy and often significant responsibility for the work of others and for the allocation of substantial resources features strongly, as do personal accountabilities for analysis, diagnosis, planning, execution and evaluation.

### 5. MALAYSIAN SKILL CERTIFICATION

Candidates after being assessed verified and fulfilled Malaysian Skill Certification requirements shall be awarded with Sijil Kemahiran Malaysia (SKM) for Level 1, 2 and 3 as for Level 4 and 5 shall be awarded with Diploma Kemahiran Malaysia and Diploma Lanjutan Kemahiran Malaysia respectively.

### 6. JOB COMPETENCIES

A Signage Supervision Level 3 are competent in performing:

- Signage Site Survey
- Signage Material Preparation
- Signage Quality Control

Optionally Signage Supervision Level 3 are competent in performing the following Elective competencies:-

• Supervisory Function

#### 7. WORKING CONDITIONS

Generally, signage personnel work is according to the work schedule and responsible to meet production and client's requirements. The personnel are also responsible to adhere to workplace standard operating procedure and organization work activities, either in workshops and studios or field works. This covers such matters as creativity, skills, training, communication, presentations, meetings, travel and work-life balance. They may work individually or in an industry with supervision by superior.

Personnel also have the opportunity to develop their career path in other related field in terms of technology innovation in sign making industry and enhance their personal and public relation skills.

#### 8. EMPLOYMENT PROSPECTS

The signage personnel have a high employment prospect whether locally or internationally. This is because the local expertise workforce is recognised by other countries as being highly knowledgeable and skilled in architectural and building industry. This in turn increases the demand for skilled personnel in this field to be employed locally or internationally.

Other related occupations with respect to employment opportunities are:

- Advertising Agency
- Signage Factory
- Media Agency
- Interior Design

Other related industries with respect to employment opportunities are:

- Education
- Training Centres
- Lecturers
- Facilitators

#### 9. SOURCES OF ADDITIONAL INFORMATION

1. Road Engineering Association of Malaysia

No 46A, Jalan Bola Tampar 13/14, Section 13, 40100 Shah Alam, Selangor.

Tel : 03 – 5513 6521/6522 Fax : 03 – 5513 6523 Email : <u>ream@po.jaring.my</u> Laman Web : <u>http://www.ream.org.my</u>

2. Malaysian Digital Signage Association

No 97-2A, Jalan TKS 1, Taman Kajang Sentral, 43000 Kajang, Selangor.

Tel : 03 – 8739 9510 Fax : 03 – 2178 4646 Email : <u>info@digitalsignageassociation.org.my</u> Laman Web : <u>http://www.digitalsignageassociation.org.my</u>

3. Lembaga Piawaian Pengiklanan Malaysia

Unit 706, Blok B, Pusat Dagangan Phileo Damansara 1, 9, Jalan16/11, Off Jalan Damansara, 46350 Petaling Jaya, Selangor.

Tel : 03 – 7660 8535 Fax : 03 – 7660 8532 Email : <u>asa@macomm.com.my</u> Laman Web : <u>http://www.asa.org.my</u>

#### 10. APPROVAL DATE

The National Skills Development Board (MPKK), Ministry of Human Resources has agreed and endorsed this Standard on .....

#### 11. ACKNOWLEDGEMENT

The Director General of DSD would like to extend his gratitude to the organisations and individuals who have been involved in developing this standard.

# 12. COMMITTEE MEMBERS FOR PHASE 1 NOSS SIGNAGE PRODUCTION & INSTALLATION LEVEL 2 AND SIGNAGE SUPERVISION LEVEL 3

PANEL				
1.	En Mohd Shamsudin bin Mohd Nordin	Pengarah Tempinas Sdn Bhd		
2.	Mr Chew Choon Yau	Director YPE Signcraft Cdn Bhd		
3.	Ms Ong Hooi Phaik	Admin Executive YPE Signcraft Cdn Bhd		
4.	Pn Faizah binti Wahid	QA/QC Executive Zelan Construction Sdn Bhd		
5.	Pn. Noriha binti Derin	Director Lembaga Lebuhraya Malaysia		
6.	Dr Masria Mustafa	Lecturer Universiti Teknologi MARA		
7.	Managing Director			
8.	Mr Yong Wai Lek Project Executive Media Signs Sdn Bhd			
9.	En Ismail Md Isa	Managing Director S&I Urban Designers Sdn Bhd		
10.	Pn. Zurina binti Aris	Project Consulting Manager S&I Urban Designers Sdn Bhd		
11.	En Ahmad Kamal bin Abudin	Engineer Projek Lebuhraya Usahasama Berhad		
12.	En Mohd Ismadi Nasri bin Mhamat Nasudin	Technical Executive Projek Lebuhraya Usahasama Berhad		
13.	En Zaharin bin Ibrahim	Senior Technical Executive Projek Lebuhraya Usahasama Berhad		
14.	En Mohd Sukhairul Azrai Designer			
FACILITATOR				
15.	Pn. Siti Rohanah Binti Ahmad	CIDB		

# 13. COMMITTEE MEMBERS FOR PHASE 2 NOSS SIGNAGE PRODUCTION & INSTALLATION LEVEL 2 AND SIGNAGE SUPERVISION LEVEL 3

PANEL				
1.	En Mohd Shamsudin bin Mohd Nordin	Pengarah Tempinas Sdn Bhd		
2.	Mr Chew Choon Yau	Director YPE Signcraft Cdn Bhd		
3.	Ms Ong Hooi Phaik	Admin Executive YPE Signcraft Cdn Bhd		
4.	Pn Faizah binti Wahid	QA/QC Executive Zelan Construction Sdn Bhd		
5.	Pn. Noriha binti Derin	Director Lembaga Lebuhraya Malaysia		
6.	Dr Masria Mustafa	Lecturer Universiti Teknologi MARA		
7.	En Md Ahir bin Abu Hasan	Managing Director Suria Insan Sdn Bhd		
8.	Mr Yong Wai Lek	Project Executive Media Signs Sdn Bhd		
9.	En Ismail Md Isa	Managing Director S&I Urban Designers Sdn Bhd		
10.	Pn. Zurina binti Aris	Project Consulting Manager S&I Urban Designers Sdn Bhd		
11.	En Ahmad Kamal bin Abudin	Engineer Projek Lebuhraya Usahasama Berhad		
12.	En Mohd Ismadi Nasri bin Mhamat Nasudin	Technical Executive Projek Lebuhraya Usahasama Berhad		
13.	En Zaharin bin Ibrahim	Senior Technical Executive Projek Lebuhraya Usahasama Berhad		
14.	En Mohd Sukhairul Azrai bin Sukiman	Designer AZ Ideal Inspiration Sdn Bhd		
FACILITATOR				
15.	Pn. Siti Rohanah Binti Ahmad	CIDB		

# 14. COMMITTEE MEMBERS FOR PHASE 3 NOSS SIGNAGE PRODUCTION & INSTALLATION LEVEL 2 AND SIGNAGE SUPERVISION LEVEL 3

PANEL				
1.	En Mohd Shamsudin bin Mohd Nordin	Pengarah Tempinas Sdn Bhd		
2.	Mr Chew Choon Yau	Director YPE Signcraft Cdn Bhd		
3.	Ms Ong Hooi Phaik	Admin Executive YPE Signcraft Cdn Bhd		
4.	Pn Faizah binti Wahid	QA/QC Executive Zelan Construction Sdn Bhd		
5.	Pn. Noriha binti Derin	Director Lembaga Lebuhraya Malaysia		
6.	Dr Masria Mustafa	Lecturer Universiti Teknologi MARA		
7.	En Md Ahir bin Abu Hasan	Managing Director Suria Insan Sdn Bhd		
8.	Mr Yong Wai Lek	Project Executive Media Signs Sdn Bhd		
9.	En Ismail Md Isa	Managing Director S&I Urban Designers Sdn Bhd		
10.	Pn. Zurina binti Aris	Project Consulting Manager S&I Urban Designers Sdn Bhd		
11.	En Ahmad Kamal bin Abudin	Engineer Projek Lebuhraya Usahasama Berhad		
12.	En Mohd Ismadi Nasri bin Mhamat Nasudin	Technical Executive Projek Lebuhraya Usahasama Berhad		
13.	En Zaharin bin Ibrahim	Senior Technical Executive Projek Lebuhraya Usahasama Berhad		
14.	En Mohd Sukhairul Azrai bin Sukiman			
FACILITATOR				
15.	Pn. Siti Rohanah Binti Ahmad	CIDB		

# 15. COMMITTEE MEMBERS FOR PHASE 4 NOSS SIGNAGE PRODUCTION & INSTALLATION LEVEL 2 AND SIGNAGE SUPERVISION LEVEL 3

PANEL				
1.	En Mohd Shamsudin bin Mohd Nordin	Pengarah Tempinas Sdn Bhd		
2.	Mr Chew Choon Yau	Director YPE Signcraft Cdn Bhd		
3.	Ms Ong Hooi Phaik	Admin Executive YPE Signcraft Cdn Bhd		
4.	Pn Faizah binti Wahid	QA/QC Executive Zelan Construction Sdn Bhd		
5.	Pn. Noriha binti Derin	Director Lembaga Lebuhraya Malaysia		
6.	Dr Masria Mustafa	Lecturer Universiti Teknologi MARA		
7.	En Md Ahir bin Abu Hasan	Managing Director Suria Insan Sdn Bhd		
8.	Mr Yong Wai Lek	Project Executive Media Signs Sdn Bhd		
9.	En Ismail Md Isa	Managing Director S&I Urban Designers Sdn Bhd		
10.	Pn. Zurina binti Aris	Project Consulting Manager S&I Urban Designers Sdn Bhd		
11.	En Ahmad Kamal bin Abudin	Engineer Projek Lebuhraya Usahasama Berhad		
12.	En Mohd Ismadi Nasri bin Mhamat Nasudin	Technical Executive Projek Lebuhraya Usahasama Berhad		
13.	En Zaharin bin Ibrahim	Senior Technical Executive Projek Lebuhraya Usahasama Berhad		
14.	En Mohd Sukhairul Azrai bin Sukiman	Designer AZ Ideal Inspiration Sdn Bhd		
FACILITATOR				
15.	Pn. Siti Rohanah Binti Ahmad	CIDB		

## JOB PROFILE CHART (JPC)

SECTOR	BUILDING AND CONSTRUCTION		
SUB SECTOR	ARCHITECTURAL AND BUILDING		
JOB AREA	SIGNAGE PRODUCTION AND INSTALLATION		
NOSS TITLE	SIGNAGE SUPERVISION		
JOB LEVEL	THREE (3)	JOB AREA CODE	BC-045-3:2013



ELECTIVE	SUPERVISORY FUNCTIONS
	BC-045-3:2013:E01

Sub Sector	ARCHITECTURAL AND BUILDING		
Job Area	SIGNAGE SUPERVISION AND INSTALLATION		
NOSS Title	SIGNAGE SUPERVISION		
Level	THREE (3)		

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
1. Signage Site Survey	BC-045-2:2013:C01	This competency unit describes the skills, knowledge and attitude requirements in signage site survey. An inspection on an area where work is proposed, to gather information for a design or an estimate to complete the initial task required for the activity. It can determine a precise location, access, best orientation for site and the location of obstacle. Carry out an inventory for data collection, record details, prepare analysis of data, diagramming input for a conceptual output, conclude all analyzed and evaluation data to produce site survey report. The person who is competent in signage site survey shall be able to:- Prepare site survey information, carry out site investigation and produce site survey report, in		<ol> <li>Signage brief, blueprint &amp; client requirement obtained.</li> <li>Layout plan &amp; detail drawings analysed.</li> <li>Site locality &amp; functionality studied.</li> <li>Site condition, constraint and signage orientation reviewed.</li> <li>Data findings evaluated.</li> <li>Data findings compiled.</li> <li>Equipment and tools to carry out site survey prepared.</li> <li>Detail information from site location identified.</li> <li>Signage placement, quantity, traffic flow, road alignment, site availability &amp; site constraint investigated.</li> <li>Site condition data &amp; photos recorded.</li> </ol>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		accordance with organization, authority and clients' requirements and standard practices.	3. Produce site survey report.	<ul> <li>3.1 Signage placement, quantity, traffic flow, road alignment, site availability &amp; site constraint information data collated.</li> <li>3.2 Reviewed data validated.</li> <li>3.3 Data findings e.g. signage placement &amp; alignment, signage contents, proposed materials and quantities summarized.</li> <li>3.4 Final report and over plan marking produced.</li> <li>3.5 Report submitted for approval.</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
2. Signage Material Preparation	BC-045-2:2013:C02	This competency unit describes the skills, knowledge and attitude requirements in signage material preparation. The process where all the materials needed for the fabrication are collated, sorted and approved for use. Preparation is an essential aspect of fabricating and it is a must that all materials are well prepared before the fabrication of signages are commenced.	<ol> <li>Prepare material/product information.</li> </ol>	<ol> <li>1.1 Sign type function identified</li> <li>1.2 Specification of signage materials/product including brochures collected.</li> <li>1.3 Material/product compliance with client's requirement selected.</li> <li>1.4 The best quality for each material/product evaluated.</li> <li>1.5 Material/product submitted for approval.</li> </ol>
		The person who is competent in signage material preparation shall be able to Prepare material/product information and material/product quantity in accordance with client's requirements and standard.	2. Prepare material/product quantity.	<ul> <li>2.1 Quantity calculated based on BQ and drawing.</li> <li>2.2 Current stock inventory checked.</li> <li>2.3 Stock inventory updated.</li> <li>2.4 Purchase request for material quantity issued to purchasing department.</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
3. Signage Quality Control	BC-045-2:2013:C03	This competency unit describes the skills, knowledge and attitude requirements in signage quality control. The process which reviews the quality of all factors involve in fabrication and installation activities so that the quality requirement for a product will be fulfilled.	1. Conduct Fabrication Quality Control	<ol> <li>Fabrication procedure reviewed.</li> <li>Fabrication work checklist established.</li> <li>Fabrication defects controlled.</li> <li>Finished product inspected.</li> <li>Fabrication quality report submitted.</li> </ol>
		The person who is competent in signage quality control shall be able to conduct fabrication quality control, installation quality control and testing & commissioning process in accordance with client's requirements and standard.	2. Conduct Installation Quality Control	<ul> <li>2.1 Installation procedure reviewed.</li> <li>2.2 Installation work checklist established.</li> <li>2.3 Installation defects controlled.</li> <li>2.4 Installed product inspected.</li> <li>2.5 Installation quality report submitted.</li> </ul>
			3. Conduct Testing and Commissioning Process	<ul> <li>3.1 Commissioning checklist established.</li> <li>3.2 Manufacturers operation manual obtained.</li> <li>3.3 Carried out field inspection, testing &amp; commissioning.</li> <li>3.4 Testing result submitted.</li> </ul>

	CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
4. \$	Supervisory Functions	BC-045-2:2013:E01	This competency unit describes the skills, knowledge and attitude requirements in supervisory functions. The process where planning of work between sections are coordinated.	1. Conduct section meeting.	<ol> <li>Meeting schedule and agenda are prepared.</li> <li>Target group informed.</li> <li>Previous minutes confirmed.</li> <li>Minute of meeting are recorded and distributed.</li> </ol>
			The person who is competent in supervisory functions shall be able to conduct section meeting, plan work programme and coordinate work/activities	2. Plan work programme	<ul> <li>2.1 Work flow is established</li> <li>2.2 Manpower selected</li> <li>2.3 Machineries/ tools arranged</li> <li>2.4 Work programme generated</li> </ul>
				3. Coordinate work/activities	<ul><li>3.1 Work activities identified</li><li>3.2 Work activities organized</li><li>3.3 Work activities assigned</li></ul>

# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		ARCHITECTURAL AND BUILDING							
Job Area		SIGNAGE PRODUCTION AND INSTALLATION							
NOSS Title		SIGNAGE S	UPERVISIO	N					
Competency Unit T	itle	SIGNAGE S	ITE SURVE	Y					
Learning Outcome		The person who is competent in this CU shall be able to signage site survey. Upon completion of this competence • Prepare site survey information • Carry out site investigation • Produce site survey report							
Competency Unit II	)	BC-045-3:	2013:C01	Level	3	Training Duration	200 Hours	Credit Hours	20
Work Activities	Related K	nowledge	Relate	ed Skills		de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Prepare site survey information	<ul> <li>Authority and ac</li> <li>Ability to comm verbal with cl</li> <li>Drawings</li> </ul>	ents: e tion ation y asurement y policy cts unicate /non-verbal ients (blue print) and retrieval y signage					22	Lecture	<ul> <li>i. Clients collected and gathered</li> <li>ii. Clients blue print extracted</li> <li>iii. Over plan marking marked, signage location identified</li> <li>iv. Working area, site conditions, constraints &amp; obstructions, signage orientation and machineries determined</li> <li>v. Site</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>Sequence</li> <li>iv. Identify site requirements</li> <li>Working area</li> <li>Site obstruction</li> <li>Signage placement &amp; orientation</li> <li>Authority/company/ government requirements/code of ethics</li> <li>Type of machineries needed</li> <li>Knowledge in assessing and evaluating information</li> <li>vi. Efficiency to organise documents</li> <li>Sort</li> <li>Label file</li> <li>Hard &amp; soft copy</li> </ul>					requirements and drawings assessed vi. Data findings gathered and filed
		<ul> <li>i. Obtain clie information</li> <li>ii. Analyse blue print data</li> <li>iii. Study signage location and functionality</li> <li>iv. Review site requirements</li> <li>v. Evaluate data findings</li> <li>vi. Compile data findings</li> </ul>	<u>Attitude:</u> i. Accurate in selecting particular	60	Demonstration and observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			document ii. Communication skills iii. Analytical in obtaining information iv. Knowledgeable in interpreting clients' requirements			
2. Carry out site investigation	<ul> <li>i. Site survey requirements:</li> <li>Work checklist</li> <li>Location/proposed area site photos</li> <li>Work area measurement</li> <li>Drawings (blue print)</li> <li>Safety equipment</li> <li>Knowledge to perform area identification:</li> <li>Accept responsibility for work area</li> <li>iii. Ability to analyse site conditions:</li> <li>Proper measuring tools/equipment</li> <li>Photo taking technique</li> <li>Logical/rational interpretation</li> <li>Basic hand</li> </ul>			24	Lecture	<ul> <li>i. Site visit equipment prepared and compiled</li> <li>ii. Working area verified and identified</li> <li>iii. Site conditions obtained and inspected</li> <li>iv. All site information and details documented and filed</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	sketches • Site constraints/ problems • Actual site measurement • Site photos iv. Administration of all gathered information					
		<ul> <li>i. Prepare survey equipment</li> <li>ii. Identify working area</li> <li>iii. Investigate site condition</li> <li>iv. Record site information</li> </ul>	<ul> <li><u>Attitude</u> <ol> <li>Knowledgeable in preparing for site activity</li> <li>Firm in decision making</li> <li>Systematic in investigation</li> <li>Detailed in recording site data</li> </ol> </li> <li><u>Safety</u> <ol> <li>Adhere to all standard safety practice and procedure</li> <li>Rules and regulations at the site/working area</li> </ol> </li> </ul>	50	Demonstration and observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities           3. Produce site survey report	<ul> <li>i. Ability to produce site report: <ul> <li>Identify, accumulate and coordinate information</li> <li>Select, define and manage data</li> <li>Problems/ constraints on site resolved</li> <li>Adhere to authority/clients rules and regulations</li> <li>Suitable</li> </ul> </li> </ul>	Related Skills				i. Survey information gathered and collated ii. Site survey data analysed and recorded iii. Data findings summarised iv. Contents accurately reported and finalised v. Site survey report produced
	information and machineries/ equipments • Filter relevant data • Systematic report contents ii. Organise appropriate documentation: • Report writing skills • Computer literacy • Filing system	i. Collate survey information ii. Analyse site survey		28	Observation	vi. Report submitted and verified

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		data iii. Summarise data findings iv. Finalise report contents v. Produce site survey report vi. Submit report for approval	Attitude i. Accurate in reviewing contents ii. Precise in data analysis iii. Systematic in recording and compiling iv. Meticulous in report writing v. Efficient in applying computer skills <u>Environment</u> i. Control usage of materials/ stationery			

### Employability Skills

Core Abilities	Social Skills	
<ul> <li>01.07 Utilise database applications to locate and process information</li> <li>01.08 Utilise spreadsheets applications to locate and process information</li> <li>01.10 Apply a variety of mathematical techniques</li> <li>01.11 Apply thinking skills and creativity</li> <li>02.10 Prepare reports and instructions</li> <li>02.11 Convey information and ideas to people</li> <li>03.14 Facilitate and coordinate teams and ideas</li> <li>03.15 Liaise to achieve identified outcomes</li> <li>03.16 Identify and assess client/customer needs</li> <li>04.06 Allocate work</li> <li>05.01 Implement project/work plans</li> <li>05.02 Develop and maintain networks</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Learning skills</li> <li>Leadership skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> </ol>	

### Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
1. Stationery	As per required
2. Camera	1:5
3. Computer & peripherals	1:1
4. Software – AutoCAD, Microsoft	1:1
5. Measuring tools	1:4
6. Safety equipment (Protective Personal Equipment)	1:1
7. Authority manual & guidelines	1:5

### References

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- 3. Advertisement
- 4. Building signage
- 5. Lighted signages
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- 14. Good Practice Guideline on full body massage, Tradiditional dan Komplementeri, Kementerian Kesihatan, Malaysia, 2011, ISBN -978-98344754-9-9

# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector	ARCHITECTURAL A	ARCHITECTURAL AND BUILDING						
Job Area	SIGNAGE PRODUC	SIGNAGE PRODUCTION AND INSTALLATION						
NOSS Title	SIGNAGE SUPERVI	SION						
Competency Unit Title	SIGNAGE MATERIA	L PREPAR	ATION					
Learning Outcome	The person who is competent in this CU shall be able to describe the skills, knowledge and attitude requirements is signage material preparation. Upon completion of this competency unit, trainees will be able to: - • Prepare material/product information • Prepare material/product quantity				ements in			
Competency Unit ID	BC-045-3:201	3:C02	Level	3	Training Duration	200 Hours	Credit Hours	20
Work Activities	Related Knowledge	Relate	ed Skills		de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Prepare i. material/ product information ii.	Types and functions of signage: • Billboard • Road signage • Illuminated signs on • Building signage • Internal architectural sign system • External architectural sign system • Advertising/ promotion/display panel Main material/product component specifications • sign face • structure					32	Lecture	<ul> <li>i. Sign type function and components identified</li> <li>ii. Material /product specifications collected and gathered</li> <li>iii. Material/ product determined and selected</li> <li>iv. Material/ product reviewed, analysed and assessed</li> <li>v. Material/ product verified and endorsed</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>sign frame</li> <li>footing</li> <li>iii. Quality of material/product</li> <li>Warranty/ durability</li> <li>Testing</li> <li>iv. Sample material/product approval and documentation</li> </ul>					
		<ul> <li>i. Identify sign type function</li> <li>ii. Collect material/product specifications</li> <li>iii. Select required material/product</li> <li>iv. Evaluate selected material/product</li> <li>v. Submit material/product for approval</li> </ul>	<u>Attitude:</u> i. Precise in sourcing document ii. Accurate in selecting particular documents iii. Factual in determining specifications iv. Ensure suitability	72	Demonstration and observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Prepare	i. Material/product		of material/ product v. Knowledgeable in products	24	Lecture	i. Material/
material/ product quantity	<ul> <li>quantify</li> <li>ii. Material/product stock</li> <li>iii. Material/product stock</li> <li>inventory</li> <li>iv. Material/product</li> <li>purchasing</li> </ul>					product quantity required calculated ii. Current stock balance
		<ul> <li>i. Calculate material/product quantity</li> <li>ii. Check current material/product stock</li> <li>iii. Update material/product stock inventory</li> <li>iv. Issue material/product purchase request</li> </ul>	Attitude i. Responsible in recording purchased item ii. Efficient and accurate in calculation iii. Responsible in purchasing products suitable for operation	72	Demonstration and observation	inspected and checked iii. Stock inventory secured and updated iv. Purchase material requisition issued

### Employability Skills

Core Abilities	Social Skills
<ul> <li>01.07 Utilise database applications to locate and process information</li> <li>01.08 Utilise spreadsheets applications to locate and process information</li> <li>01.10 Apply a variety of mathematical techniques</li> <li>01.11 Apply thinking skills and creativity</li> <li>02.10 Prepare reports and instructions</li> <li>02.11 Convey information and ideas to people</li> <li>03.14 Facilitate and coordinate teams and ideas</li> <li>03.15 Liaise to achieve identified outcomes</li> <li>03.16 Identify and assess client/customer needs</li> <li>04.06 Allocate work</li> <li>05.01 Implement project/work plans</li> <li>05.02 Develop and maintain networks</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Learning skills</li> <li>Leadership skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> </ol>

### Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
<ol> <li>Stationery</li> <li>Computer &amp; peripherals</li> <li>Software –AutoCAD, Microsoft</li> <li>Authority manual &amp; guidelines</li> </ol>	As per required 1:1 1:1 1:5

### References

#### REFERENCES

- 1. The Easy Massage Work Book, Clare Harris, 2006, ISBN -978-84483-882-0
- 2. Traditional and Complementary Medicine, Practice Guidelines on Malay Massage, 2007, ISBN -983-44754-4-4
- 3. The Complete Illustrated Guide to Massage, Steward Mitchell, 1997, ISBN -1- 85230-990-3
- 4. Professional Beauty Therapy Level 3, Lorraine Nordmann, 2007, ISBN -978-1-84480-696-6
- 5. Beauty Basics Level 1, Lorraine Nordmann, 2007, ISBN –978-1-84480-694-2
- 6. Sport Massage, Tim Paine, 2000, ISBN -0-71365007-9
- 7. Fibromyalgia & Chronic, Myofascial Pain, Devin starlanly and Mary Ellen Copeland, 2001, ISBN -1- 57224-238-8
- 8. Berurut Untuk Pemulihan Urat Saraf, Amran Kasimin Dan Abdullah Seman, 1995, ISBN -983-9601-95-4
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# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector	Sub Sector ARCHITECTU			BUILDING					
Job Area SIGNAGE P			RODUCTIO	N AND INST	ALLATIO	N			
NOSS Title		SIGNAGE S	UPERVISIO	N					
Competency Unit T	itle	SIGNAGE C		NTROL					
Learning Outcome signage qua • Conduct fa • Conduct in			the person who is competent in this CU shall be able to describe the skills, knowledge and attitude requirements in gnage quality control. Upon completion of this competency unit, trainees will be able to: - Conduct fabrication quality control Conduct installation quality control Conduct testing and commissioning process						
Competency Unit I	)	BC-045-3:	2013:C03	Level	3	Training Duration	320 Hours	Credit Hours	32
Work Activities	Related K	nowledge	Relate	ed Skills		de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Conduct fabrication quality control	procedure workflow ii. Product qu standard • Organisa standa and pr • Product require specifi • Methods	fabrication and uality and ation' ard practice rocedure ements & cations and ques of ction uality report	procedur	abrication e fabrication			24	Lecture Demonstration and observation	<ul> <li>i. Fabrication procedure examined and adhered erred</li> <li>ii. Fabrication work checklist established and produced</li> <li>iii. Fabrication defects monitored, verified and managed</li> <li>iv. Finished product inspected and validated</li> <li>v. Fabrication quality report recorded and submitted</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		work checklist iii. Control fabrication defects iv. Inspect finished product v. Submit fabrication quality report	Attitude:i. Integrity in giving evaluationii. Competent in conducting quality assessmentiii. Confident and motivatedSafety:i. Adhere to all standard safety practice and proceduresii. Rules and regulation at working areaEnvironment:i. Maintain good housekeepingii. Control wastage of materials			
<ol> <li>Conduct installation quality control</li> </ol>	<ul> <li>Determining and assessing installation process</li> <li>ii. Installation quality and standard</li> </ul>			32	Lecture	<ul> <li>Installation procedure examined and adhered to</li> <li>Installation</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>Clients' practice and procedure</li> <li>Installation requirements &amp; specifications</li> <li>Methods and techniques of inspection</li> <li>Installation quality report documentation</li> </ul>					work checklist established and produced iii. Installation defects monitored, verified and managed iv. Finished product inspected and
		<ul> <li>Review installation procedure</li> <li>Establish installation work checklist</li> <li>Control installation defects</li> <li>Inspect installed product</li> <li>Submit installation quality report</li> </ul>	<u>Attitude:</u> i. Integrity in giving evaluation ii. Competent in conducting quality assessment iii. Confident and motivated <u>Safety:</u> i. Adhere to all standard safety practice and procedures	90	Demonstration and observation	validated v. Installation quality report recorded and submitted

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Conduct testing	i Taskaigus procedurs		<ul> <li>ii. Rules and regulation at working area</li> <li><u>Environment:</u></li> <li>i. Maintain good housekeeping</li> <li>ii. Control wastage of materials</li> </ul>	26	Locture	i Commissioning
3. Conduct testing and commissioning process	<ul> <li>i. Technique, procedure and workflow assessment</li> <li>ii. Product quality and standard compliance</li> <li>Product requirement &amp; specification</li> <li>Methods and techniques of inspection</li> <li>iii. Field inspection, testing &amp; commissioning</li> <li>iv. Test result documentation</li> </ul>			26	Lecture	<ul> <li>i. Commissioning checklist checked and updated</li> <li>ii. Manufacturers operation manual applied</li> <li>iii. Field inspection, testing &amp; commissioning executed</li> <li>iv. Test results produced</li> </ul>
		<ul> <li>i. Establish commissioning checklist</li> <li>ii. Obtain manufacturers operation manual</li> <li>iii. Carry out field inspection, testing &amp; commissioning</li> <li>iv. Submit testing result</li> </ul>		76	Demonstration and observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<ul> <li><u>Attitude:</u></li> <li>i. Factual in determining guideline manual</li> <li>ii. Efficient in controlling target checklist</li> <li>iii. Ensure quality control summary report is filled out thoroughly</li> <li>iv. Adhere to SOP</li> <li><u>Safety:</u></li> <li>i. Adhere to all standard safety practice and procedures</li> <li><u>Environment:</u></li> <li>i. Maintain good housekeeping</li> </ul>			

### Employability Skills

Core Abilities	Social Skills
<ul> <li>01.07 Utilise database applications to locate and process information</li> <li>01.08 Utilise spreadsheets applications to locate and process information</li> <li>01.10 Apply a variety of mathematical techniques</li> <li>01.11 Apply thinking skills and creativity</li> <li>02.09 Prepare flowcharts</li> <li>02.10 Prepare reports and instructions</li> <li>02.11 Convey information and ideas to people</li> <li>03.13 Develop and maintain team harmony and resolve conflict</li> <li>03.14 Facilitate and coordinate teams and ideas</li> <li>03.15 Liaise to achieve identified outcomes</li> <li>03.16 Identify and assess client/customer needs</li> <li>04.06 Allocate work</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Learning skills</li> <li>Leadership skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> </ol>

### Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)			
<ol> <li>Stationery</li> <li>Camera</li> <li>Computer &amp; peripherals</li> <li>Measuring tools</li> <li>Safety equipment (Protective Personal Equipment)</li> <li>Authority manual &amp; guidelines</li> </ol>	As per required 1:5 1:1 1:4 1:1 1:5			

#### References

#### REFERENCES

- 1. The Easy Massage Work Book, Clare Harris, 2006, ISBN -978-84483-882-0
- 2. Traditional and Complementary Medicine, Practice Guidelines on Malay Massage, 2007, ISBN -983-44754-4-4
- 3. The Complete Illustrated Guide to Massage, Steward Mitchell, 1997, ISBN -1-85230-990-3
- 4. Professional Beauty Therapy Level 3, Lorraine Nordmann, 2007, ISBN -978-1-84480-696-6
- 5. Beauty Basics Level 1, Lorraine Nordmann, 2007, ISBN -978-1-84480-694-2
- 6. Sport Massage, Tim Paine, 2000, ISBN -0-71365007-9
- 7. Fibromyalgia & Chronic, Myofascial Pain, Devin starlanly and Mary Ellen Copeland, 2001, ISBN -1- 57224-238-8
- 8. Berurut Untuk Pemulihan Urat Saraf, Amran Kasimin Dan Abdullah Seman, 1995, ISBN –983-9601-95-4
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# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		ARCHITECTURAL AND BUILDING								
Job Area SIC		SIGNAGE P	SIGNAGE PRODUCTION AND INSTALLATION							
NOSS Title SIGNA		SIGNAGE S	UPERVISIO	ON						
Competency Unit Title SUPE		SUPERVISO	ORY FUNCT	TIONS						
Learning Outcome		supervisory fu • Conduct see • Plan work p	The person who is competent in this CU shall be able to describe the skills, knowledge and attitude requirements in supervisory functions. Upon completion of this competency unit, trainees will be able to: - • Conduct section meeting • Plan work programme • Coordinate work/activities							
Competency Unit ID	)	BC-045-3:	:2013:E01	Level	3	Training Duration	100 Hours	Credit Hours	10	
Work Activities	Related K	nowledge	Relate	ed Skills		de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria	
1. Conduct section meeting	<ul> <li>Target g</li> <li>Agenda</li> <li>Work pro</li> <li>Meeting</li> </ul>	ogress schedule r document		evious	comm skills		10	Lecture Demonstration and observation	<ul> <li>Meeting schedule and agenda prepared</li> <li>Target group informed</li> <li>Previous minutes confirmed</li> <li>Minutes of meeting recorded and distributed</li> </ul>	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			making iii. Dedication towards job scope iv. Objective driven v. Ability to chair meeting vi. Resourceful in knowledge <u>Safety</u>			
			i. Safety conscious			
2. Plan work programme	<ul> <li>Managing work and resources</li> <li>Sequence of work/activity</li> <li>Manpower</li> <li>Machineries/tools</li> <li>Work programme requirements</li> <li>Schedule</li> <li>Deadline</li> <li>Duration of work/activity/ resources</li> </ul>			10	Lecture	<ul> <li>i. Work flow established</li> <li>ii. Manpower selected</li> <li>iii. Machineries/ tools arranged</li> <li>iv. Work programme generated</li> </ul>
		<ul> <li>i. Identify work flow</li> <li>ii. Determine manpower requirements</li> <li>iii. Coordinate machineries/tools</li> <li>iv. Produce work programme</li> </ul>	<u>Attitude</u> i. Well organised in ii. Possess team work spirit	16	Demonstration and observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Coordinate work/activities	i. Implementing work tasks: • Production		<ul> <li>iii. Precise in target requirement</li> <li>iv. Strictly follow work schedule</li> <li>v. Result orientated</li> <li>vi. Firm in decision making</li> <li><u>Environment</u></li> <li>i. Maintain good housekeeping</li> <li>ii. Control wastage of materials</li> </ul>	10	Lecture	<ul> <li>Work activities identified</li> <li>Work activities</li> </ul>
	Installation	<ul> <li>i. Recognise work activities</li> <li>ii. Plan work activities</li> <li>iii. Delegate work activities</li> </ul>	<u>Attitude</u> i. Ability to instruct ii. Well organised iii. Firm in decision making iv. Punctual in conducting sessions v. Rational in arranging work activities	30	Demonstration and observation	iii. Work activities assigned

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<ul> <li><u>Safety</u></li> <li>i. Adhere to all standard safety practice and procedures</li> <li>ii. Rules and regulation at working area</li> <li><u>Environment:</u></li> <li>i. Maintain good housekeeping</li> <li>ii. Control wastage of materials</li> </ul>			

### Employability Skills

Core A	Abilities	Social Skills		
01.08 01.10 01.11 02.09 02.10 02.11 03.13 03.14 03.15 03.16 04.06 05.01 05.02	Utilise spreadsheets applications to locate and process information Apply a variety of mathematical techniques Apply thinking skills and creativity Prepare flowcharts Prepare reports and instructions Convey information and ideas to people Develop and maintain team harmony and resolve conflicts Facilitate and coordinate teams and ideas Liaise to achieve identified outcomes	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Learning skills</li> <li>Leadership skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> </ol>		

### Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)	
<ol> <li>Stationery</li> <li>Computer &amp; peripherals</li> <li>Software –AutoCAD, Microsoft</li> <li>Measuring tools</li> <li>Safety equipment (Protective Personal Equipment)</li> <li>Authority manual &amp; guidelines</li> </ol>	As per required 1:5 1:1 1:4 1:1 1:5	

### References

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NO. ID	COMPETENCY UNIT TITLE	WORK ACTIVITIES	RELATED KNOWLEDGE (A)	RELATED SKILLS (B)	HOURS (A) + (B)	TOTAL (HRS)
		Prepare site survey information	22	60	82	
1	SIGNAGE SITE SURVEY (Core)	Carry out site investigation.	24	50	74	200
		Produce site survey report	16	28	44	
2	SIGNAGE MATERIAL PREPARATION	Prepare material/product information.	32	72	104	200
2	2 PREPARATION (Core)	Prepare material/product quantity	24	72	96	200
		Conduct Fabrication Quality Control	24	72	96	
3	SIGNAGE QUALITY CONTROL (Core)	Conduct Installation Quality Control	32	90	122	320
		Conduct Testing and Commissioning Process	26	76	102	
		TOTAL HOURS (Core Competencies)	200	520	720	720
		Conduct section meeting.	10	24	34	
4	4 SUPERVISORY FUNCTION (Elective) Plan work programme Coordinate work/activities	Plan work programme	10	16	26	100
		Coordinate work/activities	10	30	40	
	TOTAL HOURS (+ Elective Competency			590	820	820

### SUMMARY OF TRAINING DURATION FOR SIGNAGE SUPERVISION (LEVEL 3)