

CONSTRUCTION TRAFFIC MANAGEMENT OFFICER CTMO

PROGRAM CURRICULUM AS OF JUNE 2020

CONSTRUCTION TRAFFIC MANAGEMENT OFFICER, CTMO

PROGRAM CURRICULUM

By: CIDB MALAYSIA
 Table 1: The number of days for each Learning Package and Knowledge Assessment.

NO	LEARNING PACKAGE (LP)	LEARNING PACKAGE NAME	DAYS	KNOWLEDGEN ASSESSMENT (KA)	
1	Learning Package 1 (LP01)	Introduction to Construction Traffic Management Officer	1	1	
2	Learning Package 2 (LP02)	Understanding Construction Traffic Management Plan	1	1	
3	Learning Package 3 (LP03)	Propose and Prepare Construction Traffic Management Control Plan and Organize Resources	2	1	
4	Learning Package 4 (LP04)				
5	Learning Package 5 (LP05)	Organize Construction Traffic Management Control System at Work Zone	1	1	
6	Learning Package 6 (LP06)	Monitoring and Control	1	1	
7	Learning Package 7 (LP07)	Assessment and Statistics	1	1	
8	Learning Package 8 (LP08)	Report	1	1	
9	Learning Package 9 (LP09)	Emergency Response Plan (ERP)	1	1	
10	Learning Package 10 (LP10)	Leadership, Communication and Liaison	1	1	
		TOTAL	11	10	

PO vs LP Mapping Chart

		Domain and Taxonomy Levels	LP 01	LP 02	LP 03	LP 04	LP 05	LP 06	LP 07	LP 08	LP 09	LP 10
PO NO	PROGRAM OUTCOME (PO) FOR CONSTRUCTION TRAFFIC MANAGEMENT OFFICER, CTMO (CIDB)	K, S, A Domain	INT	CTMP	P&P CTMP	MOS	ORG	M&C	AS & ST	R	ERP	L, COM, L
1	Construction Traffic Management Officer who has extensive Knowledge and Competent assisting his Project Manager in analysing, evaluating, planning, scheduling, organizing, preparing TMCP drawing, implementating, monitoring, control and reporting of assigned traffic management work according to Acts, Laws, Best Industry Practices, Guidelines, Rules and Regulations and Code of Conducts.	K, C C5 K, A	\checkmark	\checkmark	\checkmark				\checkmark			
2	Construction Traffic Management Officer who upholds and demonstrates the importance of Profesional Ethics , Environment, Safety and Health work culture at the work zones area and prioritize the sustainable approach in his management and delivering his services using established Traffic Management methodologies such as Construction Traffic Risk Management (CTRM), RSA, TIA, ERP, TMCP, MOS etc.	PE, E, SH C5 K, A				\checkmark					\checkmark	
3	Construction Traffic Management Officer who able to contractually prepare and propose CTMCP, understand CTMP and project management documentations with ability to perform quantity take off, BQ costing estimation and preparation, contract document, CTMSR and all other records and reports , required from his services efficiently in his work zones area.	CON, R&R C5 K, S				\checkmark				\checkmark		
4	Construction Traffic Management Officer who excel in effective communication with his employer and lead the team able to translate the needs into examplary Traffic Management services in coordinate, organize, laiase, present, obtain approvals with the internal and external stakeholders and multi-disciplinary Project Team for compliance with all needs, technical and commercial requirements including satisfactory Entrepreneurship mindset for the sustainability of his profession.	COM, L, TW, E C5 S, A					\checkmark					\checkmark
5	Construction Traffic Management Officer who ensuring a Quality deliverable from his team services through the efficient Planning , Monitoring , Control and Closing activities with establishment of Traffic Management procedures using modern and effective traffic management tools for satisfactory and quality Construction Traffic Management.	Q, PMC C5 S						\checkmark	\checkmark			

PROGRAM OUTCOME CERTIFIED TRAFFIC MANAGEMENT OFFICER, CTMO CONSTRUCTION INDUSTRY DEVELOPMENT BOARD MALAYSIA

РО	SPECIFIC CRITERIA	PROGRAM OUTCOME STATEMENT
PO1	Knowledge and Competent	Construction Traffic Management Officer who has extensive Knowledge and Competent assisting his Project Manager in analysing, evaluating, planning, scheduling, organizing, preparing TCP drawing, implementating, monitoring, control and reporting of assigned traffic management work according to Acts, Laws, Best Industry Practices, Guidelines, Rules and Regulations and Code of Conducts.
PO2	Professional Ethics, Environment, Safety and Health	Construction Traffic Management Officer who upholds and demonstrates the importance of Profesional Ethics, Environment, Safety and Health work culture at the work zones area and prioritize the sustainable approach in his management and delivering his services using established Traffic Management methodologies such as Hiracrc Document ,RSA, TIA, ERP, TCP, MOS etc.
PO3	Contract, Records and Report	Construction Traffic Management Officer who able to contractually prepare and propose TMCP, understand TMP and project management documentations with ability to perform quantity take off, BQ costing estimation and preparation, contract document, TMSR and all other records and reports , required from his services efficiently in his work zones area.
PO4	Communication, Leadership, Teamwork and Enterpreneurship	Construction Traffic Management Officer who excel in effective communication with his employer and lead the team able to translate the needs into examplary Traffic Management services in coordinate, organize, laiase, present, obtain approvals with the internal and external stakeholders and multi-disciplinary Project Team for compliance with all needs, technical and commercial requirements including satisfactory Entrepreneurship mindset for the sustainability of his profession.
PO5	Quality, Planning, Monitoring and Control	Construction Traffic Management Officer who ensuring a Quality deliverable from his team services through the efficient Planning , Monitoring , Control and Closing activities with establishment of Traffic Management procedures using modern and effective traffic management tools for satisfactory and quality Construction Traffic Management.

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LEARNING PACKAGE – 01 LP01 INTRODUCTION TO CONSTRUCTION TRAFFIC MANAGEMENT OFFICER

	CKAGE NAME AND	INTRO	DUCTION TO CONSTRUCTION TRAFFIC MANAGEM		FICER (LP01)				
NUMBE	R OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER			
LECTURE TIME	SUBJECT'S NAME		LECTURE COMPONENTS / ELEN	IENTS	•	REFERENCE DOCUMENTS PROPOSED			
8:30 - 10:30am	Introduction to Construction Traffic Management Officer	Manag empha descrip Conter	e Breaking Intro] - Brief explanation on what is the fur gement Officer (CTMO), the characteristics of Construct asize on description of the construction definition (otion of the Construction Traffic Management Officer de nt of the Introduction will cover the entire scope of 10 Lea tive Summary)	Act 520. Review and share Act 520. Construction Industry Competency Standard (CICS). Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP). JKR ATJ 2017					
10:45 - 12:45 am	Introduction to Construction Traffic Management Officer	traffic i accide	uction. Background. Construction traffic management of management work zone. Factors contributing to acciden nts. Hazard identification, risk assessment and r ication. Identify work activities that has potential hazards	Competency Standard					
1:00 - 2:30 pm		<u> </u>	LUNCH / REST						
2:30 – 4:30pm	Introduction to Construction Traffic Management Officer	plan (0 legal ro Definit	d identification. Risk assessment. Terms and definition. CTMP). Construction traffic management work scope. equirements and regulations. Gazzetting road diversion ion of construction Traffic Control Plan, (CTCP). Taki ating. Procedure in executing estimate. Executing estima	Act 520. Review and share Act 520. Construction Industry Competency Standard (CICS). Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP). JKR ATJ 2017					
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)		Assessment for LP01						

LEARNING PACKAGE NAME AND CODE	INTRO	DUCTION TO CONSTRUCTION TRAFFIC MANAGEMENT		ER (LP01)	-						
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER						
PACKAGE OUTCOME (PO)	PO1	Construction Traffic Management Officer who has extensive Knowledge and Competent assisting his Project Manager in analysing, evaluating, planning, scheduling, organizing, preparing TMCP drawing, implementating, monitoring, control and reporting of assigned traffic management work according to Acts, Laws, Best Industry Practices, Guidelines, Rules and Regulations and Code of Conducts.									
	LO1	Able to understand general knowledge on the background	and obj	ective of construction traffic	c management works.						
	LO2	Able to obtain knowledge on basic methodology for handling hazard identification, risk assessment and risk control.									
LEARNING OUTCOME (LO)	LO3	Able to obtain the knowledge on scope of work of a CTMC									
	LO4	Able to take-off, prepares BQ and costing									
TRAINING NOTES	Trainin	ng notes endorsed by CIDB.									
KNOWLEDGE ASSESSMENT (KA)	 The assessment is a closed-book assessment. To be done after lecture is covered and completed. Passing mark is 70% 										

LEARNING PACKAGE – 02

LP02 UNDERSTANDING CONSTRUCTION TRAFFIC MANAGEMENT PLAN

	ACKAGE NAME AND CODE	UNDERSTANDING CONSTRUCTION TRAFFIC MANAGEMENT PLAN (LP02)									
NU	MBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TR	AINER				
LECTURE TIME	SUBJECT'S NAME		LECTURE COM	PONE	NTS / ELEMENTS	5	REFERENCE DOCUMENTS PROPOSED				
8:30 - 10:30am	Managing Construction Traffic Management Plan and Resources	Prog cons Finai Prog	ramme Endorsed. Understanding th truction management. Resources nce, Time). Project, managemen ramme. Steps to be taken durir	ruction Traffic Management Plan and Resources. Overall Work orsed. Understanding the needs of project management. Objectives of agement. Resources management (Materials, Manpower, Machine, Project, management. Study and Understand the Overall Work ps to be taken during planning & scheduling process for traffic agement. Identification of works zones and types of work zone. Act 520, Jabatan Keselamatan dan Kesihatan Pekerjaan							
10:45 - 12:45 am	Managing Construction Traffic Management Plan and Resources	Abilit Prop zone	erstanding relating to site condition by to identify differences between osed changes to construction traffic a area potential hazard. Submit fo ributing to CTMCP modifications.	an and site condition. d on site condition. Work	(JKKP). JKR ATJ 2017						
1:00 - 2:30 pm			LU	NCH /	REST						
2:30 – 4:30pm	CTMP and Overall Work Programme Integration	Prep prog	IP and Overall Work Programme In are integration of overall work ramme. Study CTMP. Review fo ssment report (TIA).	Act 520, Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP). JKR ATJ 2017							
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)	Assessment for LP02									

LEARNING PACKAGE NAME AND CODE	UND	ERSTANDING CONSTRUCTION T	RAFF	IC MANAGEMENT	PLAN (LP02)				
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER				
PACKAGE OUTCOME (PO)	PO1	Manager in analysing, evaluatir monitoring, control and reportin	Construction Traffic Management Officer who has extensive Knowledge and Competent assisting his Project Manager in analysing, evaluating, planning, scheduling, organizing, preparing TMCP drawing, implementating, monitoring, control and reporting of assigned traffic management work according to Acts, Laws, Best Industry Practices, Guidelines, Rules and Regulations and Code of Conducts.						
	LO1	Able to understand and managir	ng Cor	struction traffic mar	nagement plan and resources				
	LO2	Able to understand site condition	าร						
	LO3	Able to understand the purpose	Able to understand the purpose of traffic management at work zones						
	LO4	Able to identify the differences between CTMP and site conditions.							
LEARNING OUTCOME (LO)	LO5	Able to understand the road con	structi	on traffic managem	ent stage/sectional plan (scheme).				
	LO6	Able to amend the CTMP based on site conditions							
	L07	Able to understand and preparing the integration of overall work programme and CTMCP							
	LO8	Able to obtain knowledge on effe	ects of	traffic Impact asses	ssment report (TIA)				
TRAINING NOTES	Train	ing notes endorsed by CIDB.							
KNOWLEDGE ASSESSMENT (KA)	 The assessment is a closed-book assessment. To be done after lecture is covered and completed. Passing mark is 70% Candidate need to answer on the question paper. 								

PROPOSE AND PREPARE CONSTRUCTION TRAFFIC MANAGEMENT CONTROL PLAN AND ORGANIZE RESOURCES

LEARNING PACKAGE – 03 LP03

LEARNING PACKAGE NAME AND CODE		PROPOSE AND PREPARE CONSTRUCTION TRAFFIC MANAGEMENT CONTROL PLAN AND ORGANIZE RESOURCES (LP03)									
NU	MBER OF DAY(s)	2	NUMBER OF ASSESSMENT	1	TRAI	NER	CIDB CERTIIFED TR	AINER			
LECTURE TIME / DAY	SUBJECT'S NAME		LECTURE COM	PONE	NTS / E	LEMENTS	3	REFERENCE DOCUMENTS PROPOSED			
Day 1	Planning construction traffic management control plan (CTMCP) and Role and Responsibilities of Team Member	Planning construction traffic management control plan (CTMCP). Planning process. Relationship between planning and proposal to propose CTMCP. Construction traffic management control plan. Role and responsibilities of team members. Project director / Superintending Officer. Project director/ Superintending officer. Construction traffic management officer (CTMO). Road safety auditor. Main contractor. Construction project manager. Construction traffic management supervisor. Traffic Controller. Flagman. Construction worker. To organize and form a work team.					CP. Construction traffic mbers. Project director / er. Construction traffic tor. Construction project	JKR Standard Specification 2014 (JKR20800-0183-14)			
Day 2	Understanding Site Condition	Works program. Integration between work program and CTMP. Visit to construction site and traffic data analysis. Sketch/line diagram for construction traffic management control plan. Overall layout of project site condition. Data analysis. Review of construction site area with construction drawing and bill of quantities. Preparation of sketches / line diagram for construction traffic management control plan. Entry / exit to and from work zone area. Consideration for sketches/line diagram modifications. Proposed construction work program. Definition of work zone area and hazard. Work Zone Area.					ffic management control view of construction site ation of sketches / line / exit to and from work . Proposed construction	Guidelines for Hazard Identification, Risk Assessment and Risk Control (HIRARC), 2008			
	Understanding Site Activity	closu Clos	aration of CTMC. Understanding are activity during construction. Re ure of non-tolled highway. Type of h management for road construction	Federal Roads Ordinance (1959) (Road Category). Malaysian Highway Authority (MHA)							
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)										

LEARNING PACKAGE NAME AND CODE	PROPOSE AND PREPARE CONSTRUCTION TRAFFIC MANAGEMENT CONTROL PLAN AND ORGANIZE RESOURCES (LP03)								
NUMBER OF DAY(s)	2	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER				
PACKAGE OUTCOME (PO)	PO1	Manager in analysing, evaluating monitoring, control and reporting	Construction Traffic Management Officer who has extensive Knowledge and Competent assisting his Project Manager in analysing, evaluating, planning, scheduling, organizing, preparing TMCP drawing, implementating, monitoring, control and reporting of assigned traffic management work according to Acts, Laws, Best Industry Practices, Guidelines, Rules and Regulations and Code of Conducts.						
	LO1	Able to execute the scope of wor	'k as a	a CTMO					
	LO2	Able to study and understand CT	ble to study and understand CTMP						
	LO3	Able to execute the job based on objective of CTMCP							
	LO4	Able to collect data for the preparation of CTMCP							
LEARNING OUTCOME (LO)	LO5	Able to conduct planning, scheduling, organizing, executing, monitoring and control of CTMCP							
	LO6	Able to prepare cost estimates for construction traffic control devices							
	L07	Able to conduct the preparation of bill of quantities (BQ)							
	LO8	Able to handle hazard identificati	Able to handle hazard identification, risk assessment and risk control (HIRARC)						
	LO9	Able to execute the works and in	nplem	enting emergency	y response plan"(ERP)				
TRAINING NOTES	Traini	ng notes endorsed by CIDB.							
KNOWLEDGE ASSESSMENT (KA)	• T • P	e assessment is a closed-book assessment. be done after lecture is covered and completed. ssing mark is 70% ndidate need to answer on the question paper.							

LEARNING PACKAGE – 04 LP04 METHOD OF STATEMENT

	ACKAGE NAME AND CODE	ME	THOD OF STATEMENT (LP04)				
NU	MBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TR	AINER
LECTURE TIME	SUBJECT'S NAME		LECTURE COM	REFERENCE DOCUMENTS PROPOSED			
8:30 - 10:30am	Method of Statement	prep mar plan Ove prep	elopment of traffic management m paration of Method of Statement agement. Steps in preparing the M . Example: MOS for construction trainal rall construction traffic management paration of construction traffic management paration for road diversion in construction	ATJ JKR 2017, LLM, standards, relevant Acts,			
10:45 - 12:45 am	Understanding Construction Traffic Management Plan and Specification	and not the	erstanding and complying with ATJ guidelines, accurately scaled sketcl confuse road users passing the area work site into the traffic devices inve ered.	ed work zones that will at are to be installed at			
1:00 - 2:30 pm			LU	NCH /	REST		
2:30 - 4:30 pm	Understanding Acts, Laws and Regulations	whe Act Act mar 133 REA drain	re are several acts, by laws and regu n implementing the construction traff 520 Construction industry developm 1994. Factory and machinery Act agement T6-16 LLM. Local govern Uniform Building by Law. ATJ JKR M Guideline. Environmental Quality nage and irrigation Act. Engineer's oleum Act (Safety rules) 1984	Road transport Act 333. OSH Act 1994. Factory and machinery Act 1967. T6-16 LLM Road. Drainage and Building Act 133. Uniform Building by Law. ATJ JKR 2017. Nota Teknik Jalan 26/08 Pindaan 2016. REAM Guideline. EQA 1974 and regulation. Akta 302 Petroleum Act 1984			
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)						

LEARNING PACKAGE NAME AND CODE	METHOD OF STATEMENT (LP04)								
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER				
PACKAGE OUTCOME (PO)	PO2	Environment, Safety and Health his management and delivering	onstruction Traffic Management Officer who upholds and demonstrates the importance of Profesional Ethics , nvironment , Safety and Health work culture at the work zones area and prioritize the sustainable approach in s management and delivering his services using established Traffic Management methodologies such as onstruction Traffic Risk Management (CTRM), RSA, TIA, ERP, TMCP, MOS etc.						
	PO3	CTMP and project management	Construction Traffic Management Officer who able to contractually prepare and propose CTMCP, understand CTMP and project management documentations with ability to perform quantity take off, BQ costing estimation and preparation, contract document, CTMSR and all other records and reports , required from his services						
	LO1	Able to understand Method of S	tateme	nt (MOS)					
LEARNING OUTCOME (LO)	LO2	Able to understand and comply	Able to understand and comply construction traffic management plan and specification						
	LO3	Able to understand the Acts, La	Able to understand the Acts, Laws and Regulations involving in MOS						
TRAINING NOTES	Train	ing notes endorsed by CIDB.							
KNOWLEDGE ASSESSMENT (KA)	• T • P	he assessment is a closed-book as to be done after lecture is covered a assing mark is 70% candidate need to answer on the qu	and co	npleted.					

ORGANIZE CONSTRUCTION TRAFFIC MANAGEMENT CONTROL SYSTEM AT WORK ZONE

LEARNING PACKAGE – 05 LP05

LEARNING P	LEARNING PACKAGE NAME AND CODE		ANIZE CONSTRUCTION TRAFFIC		AGEMENT CONT	TROL SYSTEM AT WOR	K ZONE (LP05)
NU	MBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TR	AINER
LECTURE TIME / DAY	SUBJECT'S NAME		LECTURE COM	PONE	NTS / ELEMENTS	5	REFERENCE DOCUMENTS PROPOSED
8:30 - 10:30am	Placement, Installation, Maintenance and Removal / Relocation Traffic Control Devices	traffic Tota man Proc of tra traffic Imple	osing traffic management plan. Cor c control zones. Placement of sign I Lane Closure. Formula to calcula agement works (traffic). edure for placement process. Instal affic control zones. Example of goo c plan. ementation of overall construction truction stage.	acement of signage for n of construction traffic relocation. Maintenance entation of construction	Malaysian Highway Authority (MHA). Federal Roads Ordinance (1959) (Road Category).		
10:45 - 12:45 am	Approval from Relevant Authority to Implement Construction Traffic Management Control Works	Asse traffi	veying information to road users. essment of construction traffic contr c management control plan. Re agement plan at work zone.	paration for construction	Emergency Response Plan (www.ready.gov)		
1:00 - 2:30 pm			LU	NCH /	REST		
2:30 - 4:30 pm	Plan Coordination or Construction Traffic Management in Stages/ Scheduled	(RSA	erstanding the requirement of CTMP A). Understanding traffic impact asse urces.		Federal Roads Ordinance (1959) (Road Category). Malaysian Highway Authority (MHA). Guidelines for the Safety Audit of Roads in Malaysia, Public Works Dept. (Roads Branch), 1997.		
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)						

LEARNING PACKAGE NAME AND CODE	ORG	ORGANIZE CONSTRUCTION TRAFFIC MANAGEMENT CONTROL SYSTEM AT WORK ZONE (LP05)								
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER					
PACKAGE OUTCOME (PO)	PO4	Construction Traffic Management Officer who excel in effective communication with his employer and lead the team able to translate the needs into examplary Traffic Management services in coordinate, organize, laiase, present, obtain approvals with the internal and external stakeholders and multi-disciplinary Project Team for compliance with all needs, technical and commercial requirements including satisfactory Entrepreneurship mindset for the sustainability of his profession.								
	L01	Able to understand the activities Control Devices	involv	ed in Placement, In	stallation, Maintenance and Removal / Relocation Traffic					
LEARNING OUTCOME (LO)	LO2	Able to perform and apply appro control works	Able to perform and apply approval from relevant authority to implement construction traffic management control works							
	LO3	Able to plan coordination or construction traffic management in stages/ scheduled								
TRAINING NOTES	Train	ing notes endorsed by CIDB.								
KNOWLEDGE ASSESSMENT (KA)	• T • P									

LEARNING PACKAGE – 06 LP06 MONITORING AND CONTROL

	ACKAGE NAME AND CODE	MOI	NITORING AND CONTROL (LP06)						
NU	MBER OF DAY(s)	1	NUMBER OF ASSESSMENT	CIDB CERTIIFED TR	AINER				
LECTURE TIME	SUBJECT'S NAME		LECTURE COM	REFERENCE DOCUMENTS PROPOSED					
8:30 - 10:30am	Placement and Removals of Traffic Control Devices Monitoring Works		oduction. Monitoring and control ctiveness of the Construction Traffic ing.						
10:45 - 12:45 pm	Operation of Traffic Control Devices and Equipment Monitoring Works	devi dang mac Insp Insp Traf Loca	hitoring and controlling on placeme dees. Potential hazard in that resource gerous environment and damage chineries operations, vehicles, equip bection Traffic Control Devices. Routi bections. Checklist and Forms (sar fic Control Devices and Equipment. al authority. Environmental Procedu essment requirements. Road safety	Guidelines for the Safety Audit of Roads in Malaysia, Public Works Dept. (Roads Branch), 1997. Refer to website for roles function and responsibilities of local authority.					
1:00 - 2:30 pm			LU	NCH /	REST				
2:30 - 4:30 pm	Operation of Traffic Control Devices and Equipment Monitoring Works	and Clas Haz and keep Risk that happ type	a management. Factors contributing to implementing HIRARC. Planning ssification. Physical Hazard. Chem ard. Biological Hazard. Technique to assessment of hazard. Steps and ping for hazard. The period for check anticipation and analysis. Qualitative may happen and probability that to pening. Hazard severity. Hazard con a. Responsibility and accountability to hazard analysis (JHA).	Guidelines for Hazard Identification, Risk Assessment and Risk Control (HIRARC), 2008. Occupational Safety and Health Act 1994 (OSHA Act 1994).					
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)		Assessment for LP06						

LEARNING PACKAGE NAME AND CODE	MONI	MONITORING AND CONTROL (LP06)							
NUMBER OF DAY(s)		NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER				
PACKAGE OUTCOME (PO)	PO5	Construction Traffic Management Officer who ensuring a Quality deliverable from his team services through the efficient Planning, Monitoring, Control and Closing activities with establishment of Traffic Management procedures using modern and effective traffic management tools for satisfactory and quality Construction Traffic Management.							
	LO1	Able to understand the placeme	nt and	removals of traffic	control devices monitoring works				
LEARNING OUTCOME (LO)	LO2	Able to understand operation of traffic control devices and equipment monitoring works							
	LO3	O3 Able to understand the effectiveness of construction traffic management control plans							
TRAINING NOTES	Traini	ng notes endorsed by CIDB.							
KNOWLEDGE ASSESSMENT (KA)	 The assessment is a closed-book assessment. To be done after lecture is covered and completed. Passing mark is 70% Candidate need to answer on the question paper. 								

LEARNING PACKAGE – 07 LP07 ASSESSMENT AND STATISTICS

	ACKAGE NAME AND CODE	ASS	ESSMENT AND STATISTICS (LPC						
NU	MBER OF DAY(s)	1	NUMBER OF ASSESSMENT	AINER					
LECTURE TIME	SUBJECT'S NAME		LECTURE COM	REFERENCE DOCUMENTS PROPOSED					
8:30 - 10:30am	Assessment and statistic for construction traffic management		urrence of Road Incidents within the raffic control zone area.						
10:45 - 12:45 pm	Visit to construction site	and Orga Keep othe of va rega minii signi com list o	tine and periodical inspection. Typi control at construction work site. anization chart for an Emergency F bing update of CTMP based on site rs data such as name of project, pro- ariation orders (VO), details of wo rding quality of workmanship (Qual mum temperature, time loop due to ng of site diary, hours worked, S.I plaints made by authorities, machin f materials at site, test equipments u atement, tests results and as built m	JKR, LLM, REAM, ATJ JKR 2017.					
1:00 - 2:30 pm									
2:30 - 4:30 pm	Statistic and incident assessment	cras zone	Number of incidents for different classification of incident type. Factors considered for crashes/incident/accident. Recorded the data data of incident/accident at traffic control zone area. Relationship between numbers of incidents/accidents at work versus category/type. Incident duration (how to mitigate traffic congestion). Warning signage.						
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)	Assessment for LP07							

LEARNING PACKAGE NAME AND CODE	ASSESSMENT AND STATISTICS (LP07)							
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT 1 TRAINER CIDB CERTIIFED TRAINER						
PACKAGE OUTCOME (PO)	PO1	Construction Traffic Management Officer who has extensive Knowledge and Competent assisting his Project Manager in analysing, evaluating, planning, scheduling, organizing, preparing TMCP drawing, implementating, monitoring, control and reporting of assigned traffic management work according to Acts, Laws, Best Industry Practices, Guidelines, Rules and Regulations and Code of Conducts.						
	PO5	Construction Traffic Management Officer who ensuring a Quality deliverable from his team services through the efficient Planning, Monitoring, Control and Closing activities with establishment of Traffic Management procedures using modern and effective traffic management tools for satisfactory and quality Construction Traffic Management.						
	LO1	Able to formulate the assessment and statistic for construction traffic management control.						
	LO2	Able to understand and analyze" occurrences of road Incidents/accidents within the Work Zone area".						
	LO3	Able to understand the organization chart for site supervision at the project construction site						
	LO4	Able to understand the emergency response team chart (ERT)						
LEARNING OUTCOME (LO)	LO5	Able to understand and take appropriate action on site visits to work zone						
	LO6	Able to understand on the importance of "Keeping update of CTMP based on site progress"						
	L07	Able to understand on "different classification of incident type".						
	LO8	Able to understand on the tabulation used to record data incidents/accidents at the work zone area.						
\TRAINING NOTES	Train	ng notes endorsed by CIDB.						
KNOWLEDGE ASSESSMENT (KA)	• T • P	 The assessment is a closed-book assessment. To be done after lecture is covered and completed. Passing mark is 70% Candidate need to answer on the question paper. 						

LEARNING PACKAGE – 08 LP08 REPORT

	ACKAGE NAME AND CODE	REF	PORT (LP08)						
NU	MBER OF DAY(s)		NUMBER OF ASSESSMENT	AINER					
LECTURE TIME	SUBJECT'S NAME		LECTURE COM	REFERENCE DOCUMENTS PROPOSED					
8:30 - 10:30am	Traffic Management Safety Reports (TMSR)	man Zon	Report and inspection. Construction traffic management control plan (CTMCP). Traffic nanagement safety report (TMSR). The Occurrence of Road Incidents within the Work Zone Report. Format of report details of accidents for the relevant month. Cumulative data of accidents due to traffic and work as per section. Accident Analysis.						
10:45 - 12:45 am	Traffic Management Safety Reports (TMSR)	audi (CTI desc an ii the the	Display of Up-to-Date CTMP for Inspection and Audit. Construction traffic management audit flow process. Three Month's Construction Traffic Management Safety report (CTMSR). Detailing of TMSR: Project brief as per project statement. Project background, describing the works to be carried out, value of construction cost, traffic management is an important element for each construction project that involves works near or all along the traffic route where it can increase the safety at the work place and the road users at the construction area. Prepare the TMT organizational chart. Prepare the ERT organizational chart.						
1:00 - 2:30 pm			LU	NCH /	REST				
2:30 - 4:30 pm	Traffic Management Safety Reports (TMSR)	mon traffi repo Mon	List of officer's role and responsibility. Work progress and traffic management scheme. 3 months in advance traffic management planning. Traffic devices inventory and number of traffic workers in the team. Monthly report of vehicles breakdown at project area. Monthly report on accident at project area. Measuring level of service for traffic at project area. Monthly report on public complaints. Summary and proposal. Photos at work site. Relevant attachments. Daily Records/ site diary. Public Complaints.						
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)	Assessment for LP08							

LEARNING PACKAGE NAME AND CODE	REP	REPORT (LP08)						
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT	NUMBER OF ASSESSMENT 1 TRAINER CIDB CERTIIFED TRAINER					
PACKAGE OUTCOME (PO)	PO3	Construction Traffic Management Officer who able to contractually prepare and propose CTMCP, understand CTMP and project management documentations with ability to perform quantity take off, BQ costing estimation and preparation, contract document, CTMSR and all other records and reports , required from his services efficiently in his work zones area.						
	LO1	Able to understand the contractor management control plan system			e and report the progress for construction traffic			
	LO2	2 Able to understand the preparation of the progress report format.						
LEARNING OUTCOME (LO)	LO3	Able to understand the contents of progress report.						
	LO4	Able to understand the contents of progress report for incident/accident at work zone.						
	LO5	Able to understand the site diary for the preparation of daily report.						
TRAINING NOTES	Train	ing notes endorsed by CIDB.						
KNOWLEDGE ASSESSMENT (KA)	• T • P	he assessment is a closed-book as o be done after lecture is covered a assing mark is 70% andidate need to answer on the qu	and co	npleted.				

LEARNING PACKAGE – 09 LP09 EMERGENCY RESPONSE PLAN (ERP)

	ACKAGE NAME AND CODE	EMERGENCY RESPONSE PLAN (ERP) (LP09)							
NU	MBER OF DAY(s)	1 NUMBER OF ASSESSMENT 1 TRAINER CIDB CERTIIFED TR						AINER	
LECTURE TIME	SUBJECT'S NAME	LECTURE COMPONENTS / ELEMENTS					REFERENCE DOCUMENTS PROPOSED		
8:30 - 10:30 am	Emergency Response Plan (ERP)	of Op	Develop Emergency Response Plan (ERP). Project Scope. Layout and site plan. Location f Operation. Hazard and Risk Assessment. Mitigation Plan. Roles and Responsibility of Each Team Member. Job Scope Based on Hierarchy Organizational Chart.						
10:45 - 12:45 pm	Organization Chart, Flowchart Action Plan, Emergency Contact and Emergency Line of Communication	Com	Organization Chart, Flowchart Action Plan, Emergency Contact and Emergency Line of Communication. Identify Key Personnel. Flow of Responsibilities. Get the Contact Numbers of Personnel. Get the Contact Numbers of Authorities Personnel						
1:00 - 2:30 pm			LU	NCH /	/ RE	ST			
2:30 - 4:30 pm	Emergency Response Plan (ERP) Execution and Activation	Resp Eme Cont Proc Flow	rgency Response Plan (ERP) Exec bective Organization or Project S rgency Response Team (ERT) Stru- act Detail. Procedure to Notify / F ess. Detail on Emergency. Equipn . Detailed Search and Rescue Pl brs / Contractors. Instructions on Sh ess						
4:30 - 5:30 pm	KNOWLEDGE ASSESSMENT (KA)	Assessment for LP09							

LEARNING PACKAGE NAME AND CODE	EMERGENCY RESPONSE PLAN (ERP) (LP09)						
NUMBER OF DAY(s)	1	NUMBER OF DAY(s) 1 NUMBER OF DAY(s) 1					
PACKAGE OUTCOME (PO)	PO2	Construction Traffic Management Officer who upholds and demonstrates the importance of Profesional Ethics , Environment, Safety and Health work culture at the work zones area and prioritize the sustainable approach in his management and delivering his services using established Traffic Management methodologies such as Construction Traffic Risk Management (CTRM), RSA, TIA, ERP, TMCP, MOS etc.					
	LO1	Able to understand CTMP					
	LO2	Able to understand CTMCP					
	LO3	Able to understand typical work zone areas					
	LO4	Able to understand the scope of work of a CTMO					
LEARNING OUTCOME (LO)	LO5	Able to understand the specification of CTMCP					
	LO6	Able to understand and implement emergency response plan (ERP).					
	L07	Able to understand mitigation phase					
	LO8	Able to understand roles and responsibility of team members					
	LO9	Able to understand organization chart, flowchart action plan, emergency contact and emergency line of communication.					
TRAINING NOTES	Train	ing notes endorsed by CIDB.					
KNOWLEDGE ASSESSMENT (KA)	 The assessment is a closed-book assessment. To be done after lecture is covered and completed. Passing mark is 70% Candidate need to answer on the question paper. 						

LEARNING PACKAGE – 10 LP10 LEADERSHIP, COMMUNICATION AND LIAISON

	EARNING PACKAGE NAME AND CODE LEADERSHIP, COMMUNICATION AND LIAISON (LP10)						
NU	MBER OF DAY(s)	1	NUMBER OF ASSESSMENT	AINER			
LECTURE TIME	SUBJECT'S NAME		LECTURE COM	REFERENCE DOCUMENTS PROPOSED			
8:30 - 10:30 am	Duties of a competent CTMO	CID Pos integ acci perf com	nonstrate effective leadership, comm B. Duties of a competent CTMO. D ition in the organization chart. Per grity practices. Employ competent, e redited skilled and unskilled worker ormance of staffs and workers. Kr pany's organization chart. Obtain the au	Act 520 CIDB. Example of each document and explain. Main Org Chart of Construction			
10:45 - 12:45 pm	Organize and develop an effective team work	CTN requ	anize and develop an effective te MP/CTMCP. Identify the staffs requ lired. Assign specific tasks to staff vely in construction project meeting ies.	- Personnel			
1:00 - 2:30 pm			LU	NCH /	REST		
2:30 - 4:30 pm	Organize and develop an effective line of communication	for mar com proj	anize and develop an effective line of CTMP/CTMCP. Participate activel agement, site, coordination, liais pany's organization and external rele ect meetings such as managemen larly within company's organization	Act 520 CIDB. Example of each document and explain. Main Org Chart of Construction Personnel			
4:30 - 5:30 pm	4:30 - 5:30 pm KNOWLEDGE ASSESSMENT (KA) Assessment for LP10						

LEARNING PACKAGE NAME AND CODE	LEAD	LEADERSHIP, COMMUNICATION AND LIAISON (LP10)						
NUMBER OF DAY(s)	1	NUMBER OF ASSESSMENT	1	TRAINER	CIDB CERTIIFED TRAINER			
PACKAGE OUTCOME (PO)	PO4	team able to translate the nee present, obtain approvals with compliance with all needs, teo	Construction Traffic Management Officer who excel in effective communication with his employer and lead the team able to translate the needs into examplary Traffic Management services in coordinate, organize, laiase, present, obtain approvals with the internal and external stakeholders and multi-disciplinary Project Team for compliance with all needs, technical and commercial requirements including satisfactory Entrepreneurship mindset for the sustainability of his profession.					
	LO1	Able to perform duties diligently	as per	the contract.				
	LO2	Able to lead the project team eff	ectivel	y to ensure project	success			
	LO3	LO3 Able to report to superior and lead the traffic management team as per organizational chart.						
LEARNING OUTCOME (LO)	LO4	Able to organize the project team to work as a team.						
	LO5	O5 Able to communicate effectively amongst team members and external stakeholders to ensure efficient shari information.						
	LO6	.06 Able to liaise effectively with team members and all external stakeholders to mitigate misunderstanding thus probably causing delays.						
TRAINING NOTES	Train	ing notes endorsed by CIDB.						
KNOWLEDGE ASSESSMENT (KA)	 The assessment is a closed-book assessment. To be done after lecture is covered and completed. Passing mark is 70% Candidate need to answer on the question paper. 							