



<b>COURSE TITLE</b>	<b>: Mobile Crane Operator</b>		
<b>COURSE DURATION</b>	<b>: 05 days / 40 Hour</b>	<b>COURSE CODE</b>	<b>: MCO</b>
<b>COURSE CATEGORY</b>	<b>: Competency</b>	<b>COURSE LEVEL</b>	<b>: Intermediate</b>
<b>HRDCORP SCHEME</b>	<b>: Claimable</b>		
<b>COURSE FEE</b>	<b>: RM 1839.63</b>		
<b>TOTAL FEE</b>	<b>: RM 1950.00(inclusive of 6% SST) -</b>		

**1. OBJECTIVE(S):**

At the end of the course, the participant will be able to:

- i. Identify and explain the function of all major crane components and assemblies
- ii. Explain the legal requirement related to mobile crane operation
- iii. Understand and use operational aids and safety devices like load moment indicator, load chart, boom angle indicator, boom length indicators, crane level indicator and outrigger.
- iv. Set up the crane and perform operation mobile cranes safely
- v. Determine hazardous in mobile crane operations works
- vi. Perform and document the crane inspection procedure

**2. TARGET GROUP(S):**

- i. OSH Practitioners.
- ii. Engineers/Executives
- iii. Lifting operations personnel and riggers aspiring to become Mobile Crane Operator
- iv. Interested parties

**3. ENTRY REQUIREMENT(S):**

- i. Malaysian citizen; and
- ii. Physically and mentally fit; and
- iii. Able to perform basic mathematical calculation; and
- iv. Able to read and write either Bahasa or English



**4. TOPIC(S):**

- i. Legislative Requirement
- ii. Introduction to Mobile Cranes
- iii. Personnel and General Safety
- iv. Calculation on angle factor and lifting (volume area, weight and density)
- v. Slings Methods
- vi. Signals and Communications
- vii. Lifting Appliances
- viii. Load Chart
- ix. Pre-Operation and post-operation Inspections
- x. Practical Training
- xi. Turn off the crane (Post Check)

**5. LIST OF REFERENCE BOOK(S):**

- i. Akta Keselamatan dan Pekerjaan 1994 (Akta 514)
- ii. Akta Kilang dan Jentera 1967 (Akta 139)
- iii. Guidelines for Hazard Identification, Risk Assessment and Risk Control (HIRARC), 2008
- iv. Guidelines For Public Safety & Health at Construction Sites (1<sup>st</sup> revision 2007) Department of Occupational Safety and Health Malaysia
- v. Hoisting and rigging safety Manual, Infrastructure Health & Safety Association.Canada.2012
- vi. Manual Book Mobile Crane

**6. LIST OF TEACHING AID(S):**

- i. LCD projector.
- ii. Computer.
- iii. White board with accessories.
- iv. Flip chart with accessories.
- v. Lifting Equipment
- vi. Mobile Crane Accessories

**7. LIST OF CLASSROOM ACTIVITIES:**

- i. Lecture.
- ii. Discussion.
- iii. Practical.

**Note:** Participant is required to bring along Personal Protective Equipment (E.g. Safety Helmet and Safety Boot) for the training session.

**COURSE TITLE: MOBILE CRANE OPERATOR**

**DAY ONE**

TIME	HOUR	TOPICS	TRAINER / FACILITATOR
0830 - 0900	0.50	Registration and Course Briefing	NIOSH
0900 - 1030	1.50	Legislative Requirement	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1300	2.25	Introduction to Mobile Cranes	
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Personnel and General Safety	
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1730	1.75	Slinging Methods	
	<b>7.00</b>	<b>END OF DAY ONE</b>	

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**DAY TWO**

TIME	HOUR	TOPICS	TRAINER / FACILITATOR
0830 - 1030	2.00	Load Chart	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1300	2.25	Continuous	
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Calculation	
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1730	1.75	Signals and Communications	
	<b>7.50</b>	<b>END OF THE COURSE</b>	

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**DAY THREE**

TIME	HOUR	TOPICS	TRAINER / FACILITATOR
0830 - 1030	2.00	Practical Training -Pre-operational checks.	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1300	2.25	Practical Training -Operating procedures and precautions	
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Practical Training -Proper slewing and hoisting.	
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1730	1.75	Practical Training - Proper slewing and hoisting. -Mastering mobile crane operations. -Post-operational checks.	
	<b>7.50</b>	<b>END OF THE COURSE</b>	

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**DAY FOUR**

TIME	HOUR	TOPICS	TRAINER / FACILITATOR
0830 - 1030	2.00	Practical Training -Pre-operational checks.	
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1300	2.25	Practical Training -Operating procedures and precautions	
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Practical Training -Proper slewing and hoisting.	
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1730	1.75	Practical Training -Proper slewing and hoisting. -Mastering mobile crane operations. -Post-operational checks.	
	<b>7.50</b>	<b>END OF THE COURSE</b>	

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**DAY FIVE**

TIME	HOUR	TOPICS	TRAINER / FACILITATOR
0830 - 0900	0.50	Registration of Attendance	NIOSH
0900 - 0930	0.50	Briefing Session by Assessor	NIOSH
0930 - 1030	1.00	Assessment	NIOSH
1030 - 1045	0.25	MORNING TEA BREAK	
1045 - 1300	2.25	Assessment	NIOSH
1300 - 1400	1.00	LUNCH	
1400 - 1530	1.50	Assessment	NIOSH
1530 - 1545	0.25	AFTERNOON TEA BREAK	
1545 - 1730	1.75	Housekeeping and Closing Ceremony	NIOSH
	<b>7.50</b>	<b>END OF THE COURSE</b>	