CORE COMPETENCIES (120 HOURS)

	Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
1.	Perform pre- and post-operation procedures for Hydraulic excavator	1.1 Perform visual check	 Select personal protective equipment Select hydraulic excavator capacity Identify and explain operator serviceable parts Perform inspection of equipment 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	16 hours
		1.2 Perform "B L O W A F" check	 Explain and perform procedures in BLOWAF check for engine type Explain and perform procedures in checking battery-operated type hydraulic excavator 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	
		1.3 Perform visual check for upper, lower structure and attachments	 Explain procedures in visual check for upper, lower structure and attachments Identify abnormal conditions Perform visual check upper, lower structure and attachments 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	
		1.4 Perform operation check	 Explain and perform start-up and warming procedures Explain procedures in conducting walk-around check while the hydraulic excavator is power on Perform operation of hydraulic excavator components and safety devices 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	1.5 Perform post- Operation procedures	 Explain walk around procedures while engine is cooling down Explain and perform parking and shut-down procedures Explain how to accomplish DETR 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	
2. Perform basic preventive maintenance servicing for hydraulic excavator	2.1 Perform adjustment or replacement for noted defects	 Explain procedures in performing adjustments or replacements for noted defects Explain usage of basic hand tools and portable powered tools Perform adjustments or replacements for minor defects 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	24 hours
	2.2 Perform basic preventive maintenance servicing (PMS)	 Explain procedures in basic preventive maintenance servicing Enumerate Operator's Serviceable parts Execute basic preventive maintenance servicing (PMS) 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	
	2.3 Prepare equipment reports	 Explain procedures in accomplishing equipment reports Explain how to accomplish equipment reports 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Perform productive operation for hydraulic excavator	3.1 Travel the hydraulic excavator	 Enumerate different road and weather conditions Identify potential hazards in work area Explain procedures in responding to unexpected situations Perform travel operation 	Lecture Practical / Demonstration	 Written examination Demonstration with oral questioning 	80 hours
	3.2 Load and unload hydraulic excavator to low- bed trailer/truck	 Perform loading and unloading of hydraulic excavator to low-bed trailer Explain and perform securing of hydraulic excavator Explain and demonstrate verbal instructions and signals 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	
	3.3 Perform excavation work	 Explain and perform positioning of work equipment Explain and perform excavation work 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	

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	3.4 Perform loading operation	 Explain and perform positioning of hydraulic excavator Explain and perform loading operation procedures 	Lecture Practical / Demonstration	Written examinationDemonstration with oral questioning	
	3.5 Perform lifting operation	 Explain how to determine weight and classification of the load Explain how to read and interpret load chart Explain and perform lifting operation procedures 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	
	3.6 Perform operation using various attachments	 Explain usage of various attachment Explain and perform operation using various attachment 	Lecture Practical / Demonstration	Written examination Demonstration with oral questioning	