

<b>COURSE MODULE</b>			
<b>Course No. CE 44: Special Course on Hydraulic Circuits</b>			
<b>Duration: 1Week</b>		<b>Effective Days:06</b>	
<b>CM No.</b>	<b>Subjects wise Contents</b>	<b>Periods</b>	<b>Total Periods</b>
<b>44.1</b>	<b>Hydraulics:</b>		<b>32</b>
	Introduction and Hydraulic Symbols. Hydraulic oils and its contamination and precaution.	2	
	Types of Hydraulic pumps, Working of Gear pump, Vane pump, Axial Piston pump	2	
	Types of Pressure Control Valves such as Relief Valve, Unloader Valve, Reducer Valve etc. Types of Directional Control valve, Flow Control Valves - Meter in, meter out Circuit etc.	2	
	Working Principles of Proportional valve, Servo valve and their Troubleshooting.	2	
	Hydraulic circuits of 08 DUO/WST	2	
	Hydraulic circuits of 09-CSM & 09-3X	2	
	Hydraulic circuits of 08-Unimat 2S, 3S & 4S	2	
	Driving circuit, Cutting Chain Circuit, Belt drive Circuit, System circuit of RM-80.92U/HOTBCM	2	
	Driving circuit, Clutch circuit, Belt drive circuit, System circuit of FRM-80 & FRM-85.	2	
	Hydraulic circuit of DGS & 09-3X Dynamic	2	
	Hydraulic circuit of BRM, UTV and RBMV	2	
	Hydraulic circuit of PQRS.	2	
	Hydraulic circuit of TRT.	2	
	Hydraulic circuit of T-28.	2	
	Demonstration of hydraulic circuits using Fluidsim software & Work Exercises.	2	
	Failure analysis & Troubleshooting of Hydraulic circuits.	2	
<b>44.2</b>	<b>Introduction and Valediction</b>	2	<b>2</b>
	<b>Total</b>	<b>34</b>	<b>34</b>

**Note: 1. Eligibility: SSE/SE/JE/Technicians;**

**2. Practical demonstration in Model rooms shall be given along with theoretical s as and when required.**