Course Module			
CourseNo.: CE-32 Course Name: Special Course on Rail Grinding Machine			
Duration: 1 Week		**Effective days:** 6	
Module No.& Sub-discipline	**Contents**	**Periods**	**Total periods**
32.1 Rail Grinding Machines &Working Principles	**RGM Manuals:** Operating Manuals. Service Instruction Booklets.	1	2
	Spare Parts Catalogues and Maintenance Schedule	1	
	Standard rail profile, Damage to rails	1	2
	basics of rail grinding.	1	
	Advantage of rail grinding, Precautions in rail grinding.	2	2
	Route planning and frequency of grinding.	2	2
	Specifications of Rail grinding Machines	1	2
	Various systems of Rail grinding Machines.	1	
	Human Machine Interface (H M I) Control system, PLC layout description, and control network	2	2
	HMI layout Description. Dual screen in control car cab. display information from PLC via Ethernet network	2	2
	Human Machine Interface (HMI) Controls system SafetyConsideration. Module enables/ disables safetyLift or grind system lift/stop, Maintenance disables. Machine-stop, Travel disables. Alarms	2	2
	Quality control in Rail Grinding Machines: Pre-requisites, Pre Block Operations, Operations during Block and Post Block Operations. Specific guidelines.	2	2
	Measurementand monitoring issues.	2	2
	Target rail profile	2	2
	Management of rail grinding machine.	2	2
	Case studies and economics of rail grinding.	2	2
32.2 Computer	Work on MS office	2	2
32.2	Visit to CPOH/OEM/ ZMC	4	4
32.4	Introduction & Valediction	2	2
	Total	**34**	**34**

Eligibility: Working SSE/JE/Technician