

LESSON PLAN (FOR RELATED THEORY PART)

TRADE : Welder		SEM: I		YEAR-I
LEARNING OUTCOME	2	EXERCISE NO		LESSON NO (REF TO PRACTICAL):

DAY (1)	Hrs (2)	Major topics/Lesson Title (Reference syllabus) (3)	Details of each day plan (Explanation) /Sub topics (Reference NIMI book) (4)	Text and media content to be displayed for viewing (5)	Media nature (ie., 2D image/ 3D image / animation video/ Simulation etc.,) (6)	Whether Direct teaching or digital video for self learning (7)	Type of assessment Assessment (like Quiz, Identify, Fill in the blank, MCQ, etc.) (8)
1	1.5	Basic electricity applicable to arc welding and related electrical terms & definitions	Electricity - Day 1	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Electric Current, Voltage and Resistance - Day 1	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			AC and DC - Day 1	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 2 - Ohm's Law	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 2 - Open circuit voltage and arc voltage	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 2 - Application of electricity as applied to welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
2	1.5	Heat and temperature and its terms related to welding	Day 1 - Heat and Temperature	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Unit of Heat and Temperature	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Scales of Temperature Management	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Relation between Scales	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Principle of Arc Welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Principle of SMAW, Carbon Arc Welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment

3	3	Principle of Arc Welding	Day 1 - Atomic Hydrogen Arc Welding, Tungsten inert gas arc welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Gas metal arc welding (GMAW) and Submerged arc welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 1 - Electro-slag welding and Plasma arc welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Day 2 - Characteristics of arc	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment