

For Electrician, Fitter, Diesel Mech., and Welder TP-25hrs & TT-7 hrs. per WEEK

For COPA TP- 30hrs. & TT-6 hrs. per WEEK

LESSON PLAN (FOR RELATED THEORY PART)

TRADE : Welder	SEM:	I	YEAR-1
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	Arc length – types – effects of arc length.	define and identify the different types of arc lengths	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			explain the effects and uses of different arc lengths.	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
2	1.5	Polarity: Types and applications	state the kinds and importance of polarity in arc welding	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			describe the uses of straight and reverse polarity	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			describe the methods of determining the polarity and explain the effects of using wrong polarity.	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
3	1.5	Weld quality inspection, common welding mistakes and appearance of good and defective welds	Necessity of weld quality inspection	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Explanation of Quality Inspection	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Common welding mistakes(defects)	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment

			Appearances of good and defective weld	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
4	1.5	Weld gauges & its uses	Uses of Weld Gauges	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Types of Welding Gauges	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Uses of Weld Fillet Gauges	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment
			Uses of AWS type weld measurement gauge	Text & Images	PPT Slides	Direct teaching /Video	Quiz and Assignment