

Program Syllabus

Course #	Title of Course	On-Line Hours	Class Lecture Hours	Shop Lecture Hours	Total Hours	OJT Hours
MATH101	Applied Insulators Math I	0	10	0	10	
MATH212	Applied Insulators Math II	0	50	0	50	
SAFE501	Construction Safety I	0	10	0	10	
SAFE502	Construction Safety II	0	40	8	48	
SAFE503	Construction Safety III	0	30	0	30	
ASBS501	Supervisor Asbestos Abatement	0	24	16	40	
FTOP101	Firestop and Smoke Seal Penetrations	0	8	8	16	
INSP101	Fundamental Insulation I- Piping	16	34	30	80	
INSE212	Fundamental Insulation II- Equipment	8	37	43	88	
METL311	Advanced Metal Jacketing I Piping	0	42	82	124	
CRVW503	Curriculum Review	0	20	60	80	
METL312	Advanced Metal Jacketing II Equipment	0	28	48	76	
LSKL501	Life Skills	0	2	0	2	
PADS401	Removable Insulation Design	0	30	26	56	
WELD501	Introduction to Welding	0	0	8	8	
ARCH411	Blueprints, Codes and Specifications	0	56	0	56	
SPVN411	Effective Supervision	0	16	0	16	
LABR501	Labor History	0	44	0	44	
VABR501	Vapor Barriers	0	16	0	16	
COMP501	Computer Labor Management	0	16	0	16	
ORNT101	Orientation I	0	6	0	6	
DSRP502	Disaster Response	0	16	0	16	
FDEX101	Field Experience I	0	0	0	0	1800
FDEX212	Field Experience II	0	0	0	0	1800
FDEX312	Field Experience III	0	0	0	0	1800
FDEX412	Field Experience IV	0	0	0	0	1800
FDEX512	Field Experience IV	0	0	0	0	1800
	Totals				888	9000

Insulators Diploma

CIP Code 46.0414

- A program that prepares Mechanical Insulation Workers in learning their trade through a 5-year apprenticeship. For each year of the program, apprentices must have at least 1800 hours of paid on-the-job training and a minimum of 160 hours of related technical instruction. Technical instruction includes learning about installation techniques as well as basic mathematics, how to read and draw blueprints, general construction techniques, safety practices, and first aid.

The Insulators Program takes 5 years to complete with a total 888 hours of class time and shop time and 9,000 hours of internship as follows:

Curriculum Structure

Course #	Title of Course	Lecture	Lab	Field	On-Line
Core Courses					
ASBS501	Supervisor Asbestos Abatement	24	16	0	0
ORNT101	Orientation I	6	0	0	0
SAFE 501	Construction Safety I	10	0	0	0
		40	16	0	0
Total Class Hours 56					
MATH101	Applied Insulator's Math I	10	0	0	0
LABR501	Labor History	44	0	0	0
INSP101	Fundamental Insulation I - Piping	34	30	0	16
VABR501	Vapor Barriers	16	0	0	0
MATH212	Applied Insulator's Math II	26	0	0	0
FDEX101	Field Experience I	0	0	1800	0
		130	30	1800	16
Total Class Hours 160					
SAFE502	Construction Safety II	40	8	0	0
FTOP101	Firestop and Smoke Seal Penetrations	8	8	0	0
INSE212	Fundamental Insulation II – Equipment	37	43	0	8
PADS401	Removable Insulation Design	6	12	0	0
WELD501	Intro to Welding	0	8	0	0
FDEX212	Field Experience II	0	0	1800	0
		84	84	1800	8
Total Class Hours 168					
METL311	Advanced Metal Jacketing I – Piping	42	82	0	0
METL312	Advanced Metal Jacketing II - Equipment	4	8	0	0
PREP.	212	1 st Year	2 nd Year	3 rd Year	4 th Year
	312				5 th Year
		70	90	1800	0
Total Class Hours 160					
METL312	Advanced Metal Jacketing II - Equipment	24	40	0	0
ARCH411	Blueprints Codes and Specifications	56	0	0	0
PADS401	Removable Insulation Design	24	14	0	0
FDEX412	Field Experience IV	0	0	1800	0
		104	56	1800	0
Total Class Hours 160					
SPVN411	Effective Supervision	16	0	0	0
SAFE503	Construction Safety III	30	0	0	0
DSRP502	Disaster Response	16	0	0	0
COMP501	Computer Labor Management	16	0	0	0
LSKL501	Life Skills	2	0	0	0
CRVW503	Curriculum Review	20	60	0	0
FDEX512	Field Experience V	0	0	1800	0
		100	60	1800	0
Total Class Hours 160					