

INDUSTRIAL MAINTENANCE

Introduction to Industrial Maintenance Certificate of Completion

Completion of the curriculum outlined below leads to the Certificate of Completion in Industrial Maintenance and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3
MCHN 1343 Machine Shop Mathematics	3
ELPT 1311 Basic Electrical Theory.....	3
WLDG 1337 Introduction to Welding Metallurgy.....	3
WLDG 1307 Introduction to Welding	3
CNBT 2310 Commercial/ Industrial Blueprint Reading*.....	3
	18

Notes:

*Capstone Experience

Level I—TSI Exempt Certificate

INDUSTRIAL MAINTENANCE

Basic Electrical Certificate of Completion

Completion of the curriculum outlined below leads to the Certificate of Completion in Industrial Maintenance – Basic Electrical and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	OSHT 1301 Introduction to Safety and Health.....	3
MCHN 1343 Machine Shop Mathematics	3	IEIR 1306 Electric Motors.....	3
ELPT 1311 Basic Electrical Theory.....	3	IEIR 1312 Distribution Systems	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	IEIR 1310 Motor Controls*	3
WLDG 1307 Introduction to Welding	3		12
CNBT 2310 Comm. /Industrial Blueprint Reading.....	3		
	18		

Notes:

*Capstone Experience

Level I—TSI Exempt Certificate

INDUSTRIAL MAINTENANCE

Basic Mechanical Certificate of Completion

Completion of the curriculum outlined below leads to the Certificate of Completion in Industrial Maintenance – Basic Mechanical and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	OSHT 1301 Introduction to Safety and Health.....	3
MCHN 1343 Machine Shop Mathematics	3	ELMT 1305 Basic Fluid Power	3
ELPT 1311 Basic Electrical Theory.....	3	MCHN 1332 Bench Work and Layout	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	INMT 2301 Machinery Installation	3
WLDG 1307 Introduction to Welding	3	MCHN 2312 Millwright V*	15
CNBT 2310 Comm. /Industrial Blueprint Reading.....	3		
	18		

Notes:

*Capstone Experience

Level I—TSI Exempt Certificate

INDUSTRIAL MAINTENANCE

Electromechanical Instrumentation & Maintenance Certificate of Completion

Completion of the curriculum outlined below leads to the Certificate of Completion in Industrial Maintenance and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	OSHT 1301 Introduction to Safety and Health.....	3
MCHN 1343 Machine Shop Mathematics	3	ELMT 1305 Basic Fluid Power	3
ELPT 1311 Basic Electrical Theory.....	3	MCHN 1332 Bench Work and Layout	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	INMT 2301 Machinery Installation.....	3
WLDG 1307 Introduction to Welding	3	MCHN 2312 Millwright V	15
CNBT 2310 Comm. /Industrial Blueprint Reading.....	3		
	18		

SOPHOMORE YEAR

First Semester	Semester Hours
IEIR 1306 Electric Motors	3
IEIR 1312 Distribution Systems	3
IEIR 1310 Motor Controls	3
ELMT 2341 Electromechanical Systems*	3
	12

Notes:

*Capstone Experience

Level II – TSI Exempt Certificate

INDUSTRIAL MAINTENANCE

Electrical Controls Technician Certificate of Completion

Completion of the curriculum outlined below leads to the Certificate of Completion in Industrial Maintenance and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	OSHT 1301 Introduction to Safety and Health.....	3
MCHN 1343 Machine Shop Mathematics	3	IEIR 1306 Electric Motors.....	3
ELPT 1311 Basic Electrical Theory.....	3	IEIR 1312 Distribution Systems	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	IEIR 1310 Motor Controls.....	3
WLDG 1307 Introduction to Welding	3		12
CNBT 2310 Comm. /Industrial Blueprint Reading	3		
	18		

SOPHOMORE YEAR

First Semester	Semester Hours
ELMT 1301 Programmable Logic Controllers	3
ELMT 1305 Basic Fluid Power	3
ELMT 2333 Industrial Electronics.....	3
ELMT 2341 Electromechanical Systems	3
ELMT 2337 Electronic Troubleshooting Service and Repair*.....	3
	15

Notes:

*Capstone Experience

Level II – TSI Exempt Certificate

INDUSTRIAL MAINTENANCE

HVAC Technician Certificate of Completion

Completion of the curriculum outlined below leads to the Certificate of Completion in Industrial Maintenance and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	OSHT 1301 Introduction to Safety and Health.....	3
MCHN 1343 Machine Shop Mathematics	3	IEIR 1306 Electric Motors.....	3
ELPT 1311 Basic Electrical Theory.....	3	IEIR 1312 Distribution Systems	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	IEIR 1310 Motor Controls.....	3
WLDG 1307 Introduction to Welding	3		12
CNBT 2310 Comm./Industrial Blueprint Reading	3		
	18		

SOPHOMORE YEAR

First Semester	Semester Hours
HART 1307 Refrigeration Principles	3
HART 1341 Residential Air Conditioning.....	3
HART 1345 Gas and Electric Heating	3
HART 2336 Air Conditioning Troubleshooting*	3
ELMT 2338 Air Conditioning Installation & Startup ...	3
	15

Notes:

*Capstone Experience

Level II – TSI Exempt Certificate

INDUSTRIAL MAINTENANCE

Industrial Maintenance Electrical Controls Technician Associate in Applied Science

Completion of the curriculum outlined below leads to the Associate in Applied Science in Industrial Maintenance Electrical Controls Technician and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	ELPT 1311 Basic Electrical Theory	3
MCHN 1343 Machine Shop Mathematics	3	OSHT 1301 Introduction to Safety and Health.....	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	IEIR 1306 Electric Motors.....	3
WLDG 1307 Introduction to Welding	3	MATH X3XX College Level Mathematics Core	3
CNBT 2310 Comm./Industrial Blueprint Reading	3	ENGL 1301 Composition I.....	3
	15		15

SOPHOMORE YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
ELMT 1305 Basic Fluid Power	3	ELMT 2333 Industrial Electronics	3
IEIR 1312 Distribution Systems	3	ELMT 2341 Electromechanical Systems*.....	3
IEIR 1301 Motor Controls	3	X3XX Social and Behavioral Science Core Course	3
ELMT 1301 Programmable Logic Controllers	3	ENGL 2311 Technical Writing.....	3
SPCH 131X Speech Communications Core.....	3	INTC 1301 Principles of Industrial Measurements	3
	15		15

Notes:

AAS Degree requires 60 Credit Hours - TSI Completion Required

*Capstone Experience

INDUSTRIAL MAINTENANCE

Industrial Maintenance Electromechanical Technician Associate in Applied Science

Completion of the curriculum outlined below leads to the Associate in Applied Science in Industrial Maintenance Electromechanical Technician and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	ELPT 1311 Basic Electrical Theory	3
MCHN 1343 Machine Shop Mathematics	3	OSHT 1301 Introduction to Safety and Health.....	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	IEIR 1306 Electric Motors.....	3
WLDG 1307 Introduction to Welding	3	MATH X3XX College Level Mathematics Course.....	3
CNBT 2310 Comm./Industrial Blueprint Reading	3	ENGL 1301 Composition I.....	3
	15		15

SOPHOMORE YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
IEIR 1312 Distribution Systems	3	ELMT 2341 Electromechanical Systems*.....	3
IEIR 1301 Motor Controls	3	X3XX Social and Behavioral Science Core Course	3
ELMT 1305 Basic Fluid Power	3	INMT 2301 Machinery Installation.....	3
MCHN 1322 Bench Work and Layout.....	3	MCHN 2312 Millwright V	3
SPCH 131X Speech Communications Core.....	3	ENGL 2311 Technical Writing.....	3
	15		15

Notes:

AAS Degree requires 60 Credit Hours - TSI Completion Required

*Capstone Experience

INDUSTRIAL MAINTENANCE

HVAC Technician Associate in Applied Science

Completion of the curriculum outlined below leads to the Associate in Applied Science in Industrial Maintenance HVAC Technician and qualifies the student to pursue further college training or seek entry-level employment in various maintenance fields.

FRESHMAN YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
INMT 1305 Introduction to Industrial Maintenance	3	ELPT 1311 Basic Electrical Theory	3
MCHN 1343 Machine Shop Mathematics	3	OSHT 1301 Introduction to Safety and Health.....	3
WLDG 1337 Introduction to Welding Metallurgy.....	3	IEIR 1306 Electric Motors.....	3
WLDG 1307 Introduction to Welding	3	MATH X3XX College Level Mathematics Course.....	3
CNBT 2310 Comm./Industrial Blueprint Reading	3	ENGL 1301 Composition I.....	3
	15		15

SOPHOMORE YEAR

First Semester	Semester Hours	Second Semester	Semester Hours
IEIR 1312 Distribution Systems	3	HART 1345 Gas and Electric Hearing	3
IEIR 1301 Motor Controls	3	X3XX Social and Behavioral Science Core Course	3
HART 1307 Refrigeration Principles.....	3	HART 2336 Air Conditioning Troubleshooting*	3
HART 1341 Residential Air Conditioning.....	3	HART 2338 Air Conditioning Installation and Startup	3
SPCH 131X Speech Communications Core.....	3	ENGL 2311 Technical Writing.....	3
	15		15

Notes:

AAS Degree requires 60 Credit Hours - TSI Completion Required

*Capstone Experience