pcc.edu/programs/apprenticeship/

CAREER AND PROGRAM DESCRIPTION

Portland Community College provides courses in accordance with the Apprenticeship and Training Laws for the State of Oregon. These courses present technical instruction for the trades and are intended to complement on-the-job skills for both men and women. Each apprentice able trade has a Joint Apprenticeship and Training Committee (JATC) which outlines the procedures to become a journey person. This outline usually consists of two to five years of supervised, on-the-job experience in various aspects of the trade in conjunction with PCC course work. The JATC committees outline the type of supportive courses needed to prepare students to become qualified journey persons in addition to working with related training courses.

Consult the Apprenticeship and Trades Department for assistance in program planning and transcript evaluation. It is recommended to have your graduation petition and transcript evaluation approved by an Apprenticeship and Trades Department advisor prior to filing your petition.

Students wanting to move into management, supervision, or small business management can transfer to Oregon Institute of Technology (OIT) with related-training credits toward a Bachelor of Science (BS) in Operations Management after earning an Apprenticeship AAS degree.

DEGREES AND CERTIFICATES OFFEREDASSOCIATE OF APPLIED SCIENCE DEGREE

Construction Trades, General Apprenticeship Electrician Apprenticeship Technologies Industrial Mechanics and Maintenance Technology Apprenticeship

CERTIFICATE OF COMPLETION

Construction Trades, General Apprenticeship Electrician Apprenticeship Technologies Industrial Mechanics and Maintenance Technology Apprenticeship Limited Electrician Apprenticeship Technologies Manual Trades Apprenticeship Mechanical Maintenance Apprenticeship

CAREER PATHWAY CERTIFICATE

Apprenticeship and Trades: Pre-Trade Pathway
Apprenticeship and Trades: Pre-Trades for Advanced Manufacturing

JOURNEY LEVEL LICENSE RENEWAL

PCC's Apprenticeship and Trades Department is an approved training agent for continuing education for journey level electrical license renewal through the State of Oregon Electrical Licensing Division.

PRE-APPRENTICESHIP

PCC provides Pre-Apprenticeship opportunities to students seeking careers in the trades or an apprenticeship. These courses prepare students to apply for an apprenticeship, meet the minimum entry qualifications, and possibly boost your application score. Women and minorities are encouraged to participate.

The Trades Preparation course covers construction trade topics, industry orientation, material handling, scaffolding, rigging, hand and power tool use, 30 hour OSHA safety certification, site visits and mock interviews. This course is approved by the Oregon Apprenticeship Council as an authorized Pre-Apprenticeship course.

The Exploring Trades and Apprenticeship course explores career opportunities within the Trades. It introduces resources for assisting students in identifying the skills needed to succeed in these fields. This class is only held periodically, please check with the department before registering.

Consult the Apprenticeship and Trades Department for assistance in program planning.

Academic Prerequisites

None

Academic Requirements

None

Non-Academic Prerequisites

None

Non-Academic Requirements

 Students pursuing a designated and sponsored Oregon State Bureau of Labor and Industries occupation must meet entrance requirements for their chosen career.

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP PATHWAY

Construction Trades, General Apprenticeship AAS Degree (p. 1) Construction Trades, General Apprenticeship Certificate (p. 1) Manual Trades Apprenticeship Certificate (p. 3)

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP AAS DEGREE

The AAS degree total credit requirement depends upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee, however a minimum of 90 credits is required for all degrees. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

Code	Title	Credits
4000-8000 Hou	ur BOLI-ATD Trades	
APR 162	Calculations for the Trades §	4
College credit	courses for Related-Training	16-75
General Educa	ition: 4 courses	
Credit for Prior	Certification	0-22
Approved Prog	gram Electives	0-41
Total Credits		90-108

§

Course cannot be substituted for another course.

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training as well as 9 credits of related instruction. Embodied in this certificate are many state certifications. Both the total related training credits and the total related instruction credits depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee

6000-8000 Hour BOLI-ATD Trades: Asbestos Removal, Carpenter, Exterior/Interior Finisher, HVAC/R, Painter, Pile Driver, Plumber, Scaffold Erector, and Sheet Metal Worker

Code Title Credits
6000-8000 Hour BOLI-ATD Trades
College credit courses for Related-Training 16-99

	1				
Related Instruction		9	WR 121H	Composition I: Honors (WR121H=WR121HZ) ^Z	4
Credit for Prior Certification		0	WR 122	Composition II (WR122=WR122Z) ^Z	1
Approved Program	Electives	0	WR 122 WR 122H	Composition II: Honors_	4
Total Credits		25-108	WN IZZH	(WR122H=WR122HZ)	4
1			WR 227	Technical Writing (WR227=WR227Z) ^Z	4
See related instruct	on list below for approved courses		Human Relations	rooming (Willer - Wileer 2)	·
RELATED INS	TRUCTION 1		BA 285	Human Relations-Organizations	3
		0 "	CG 191	Exploring Identity and Diversity for	4
Code	Title	Credits		College Success	
	instruction requirement within a		MSD 107	Organizations & People	3
	must pass courses from each category nunication, human relations). The		MSD 115	Improving Work Relations	3
	ent for a two-year certificate is 4 credits		MSD 117	Customer Relations	3
from each category	and 16 credits total, the minimum		MSD 128	Crisis Intervention: Handling the Difficult	1
	ne-year certificate is 2 credits from each		MOD 454	Person	
	dits total. No substitutions are allowed for		MSD 151	Working with Difficult People	1
	Consult the Apprenticeship and Trades stance in program planning. §		MSD 161	T. A. CA. A.	1
Computation	otarioo iii program piaming.		MSD 162	The Art of Anger Management	1
APR 162	Calculations for the Trades	4	MSD 200	Organizations and Social Responsibility	3
BA 111	Introduction to Accounting	3	PSY 101	Psychology and Human Relations	4
MTH 105	Math in Society (MTH105=MTH105Z) Z	4	PSY 201A	Introduction to Psychology I	4
MTH 111	Precalculus I: Functions	4	DCV 000 A	(PSY201A=PSY201AZ) ²	4
IVIIII III	(MTH111=MTH111Z) ^Z	7	PSY 202A	Introduction to Psychology II (PSY202A=PSY202AZ) ^Z	4
MTH 112	Precalculus II: Trigonometry	4	PSY 214	Introduction to Personality	4
	(MTH112=MTH112Z) ²		PSY 215	Human Development	4
STAT 243	Elementary Statistics I (MTH/	4	PSY 216	Social Psychology	4
NATI LOGGI	STAT243=STAT243Z) ²		PSY 222	Family & Intimate Relationships	4
MTH 244	Statistics II	4	PSY 231	Foundations of Human Sexuality	4
MTH 251	Differential Calculus (MTH251=MTH251Z)	4	PSY 232	Human Sexuality in Social Context	4
MTH 252	Integral Calculus (MTH252=MTH252Z)	4	PSY 236	Psychology of Adult Development and	4
MTH 253	Calculus: Sequences and Series	5		Aging	
WITI 1 200	(MTH253=MTH253Z)	J	PSY 239	Introduction to Abnormal Psychology	4
PHY 101	Force, Motion, and Energy	4	PSY 240	Personal Awareness and Growth	4
PHY 201	General Physics	4	SOC 204	Introduction to Sociology	4
Communication	, ,		SOC 205	Social Change	4
BA 205	Business Communication Using	4	SOC 206	Social Problems	4
	Technology		SOC 213	Diversity in the United States	4
COMM 100	Introduction to Communication	4	SOC 218	Sociology of Gender	4
	(COMM100=COMM100Z) ^Z		SOC 221	Globalization and International Relations	4
COMM 111	Public Speaking	4	SOC 232	Death and Dying: Culture and Issues	4
	(COMM111=COMM111Z) Z		WS 101	Women's Studies	4
COMM 111H	Public Speaking: Honors (COMM111H=COMM111HZ) ^Z	4	WS 201	Intercultural Women's Studies	4
COMM 110		4	WS 202	Women, Activism and Social Change	4
COMM 112	Argumentation, Advocacy, and Debate Introduction to Intercultural	4	C		
COMM 140	Communication	4	§ Related Instruction	details can be viewed here.	
COMM 218	Interpersonal Communication (COMM214=COMM218=COMM218Z) Z	4	Holatod Hotraction	dotallo dali bo viewed ficio.	
MSD 105	Workplace Communication Skills	3			
MSD 119A	Intercultural Communication	1			
MSD 138A	Male/Female Communication Differences				
MSD 141A	The Time-Stress-Communication Triangle				
MSD 160A	Communication Styles	1			
MSD 175B	Direct Communication in the Workplace	1			
MSD 1762	Nonverbal Communication	1			
MSD 176A	Interpersonal Communication	1			
WR 115	Introduction to College Composition	4			
WR 121	Composition I (WR121=WR121Z) Z	4			
	, , ,				

This course is part of Oregon Common Course Numbering. The following courses are equivalent: COMM 100 and COMM 100Z COMM 111 and COMM 111Z COMM 111H and COMM 111HZ COMM 214, COMM 218, and COMM 218Z MTH 105 and MTH 105Z MTH 111 and MTH 111Z MTH 112 and MTH 112Z MTH 243, STAT 243, and STAT 243Z PSY 201A and PSY 201AZ PSY 202A and PSY 202AZ WR 121 and WR 121Z WR 121H and WR 121HZ WR 122 and WR 122Z WR 122 and WR 122HZ WR 227 and WR 227Z

MANUAL TRADES APPRENTICESHIP CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training. Embodied in this certificate are many state certifications. The total related training credits required depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee.

4000-Hour BOLI-ATD Trades: Brick Mason, Concrete Finisher, Floor Covering Installer, Glazier/Glass Worker, Laborer, Plasterer, and Roofer

Code	Title	Credits
4000 Hour BOLI-A	TD Trades	
College credit cou	rses for Related-Training	16-44
Related Instruction	า	0
Credit for Prior Ce	rtification	0
Approved Program	n Electives	0
Total Credits		16-44

APPRENTICESHIP ELECTIVES

Any department-approved 100 or 200 level PCC course.

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES PATHWAY

Electrician Apprenticeship Technologies AAS Degree (p. 3)
Electrician Apprenticeship Technologies Certificate (p. 3)
Limited Electrician Apprenticeship Technologies Certificate (p. 4)

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES AAS DEGREE

The AAS degree total credit requirement depends upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee, however a minimum of 90 credits is required for all degrees. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

Code	Title	Credits
4000-8000 Hour E		
APR 162	Calculations for the Trades §	4
College credit co	urses for Related-Training	16-75
General Educatio	n: 4 courses	
Credit for Prior Ce	ertification	0-22

Approved Program Electives	0-41
Total Credits	90-108

§

Course cannot be substituted for another course.

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training as well as 9 credits of related instruction. Embodied in this certificate are many state certifications. Both the total related training credits and the total related instruction credits depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee.6000 Hour BOLI-ATD Trades: Limited Energy Technician-License A and Sign Maker/Fabricator.

8000 Hour BOLI-ATD Trades: Inside Electrician, Limited Manufacturing Plant Electrician, Sign Assembler/Fabricator, Sign Maker/Erector and Stationary Engineer

Code	e Title	Credits
6000	-8000 Hour BOLI-ATD Trades	
	ge credit courses for Related-Training	16-99
Relat	red Instruction 1	9
Cred	it for Prior Certification	0
Appr	oved Program Electives	0
Total	Credits	25-108

See related instruction list below for approved courses

RELATED INSTRUCTION 1

BA 205

Code Title Credits

To fulfill the related instruction requirement within a certificate students must pass courses from each category (computation, communication, human relations). The minimum requirement for a two-year certificate is 4 credits from each category and 16 credits total, the minimum requirement for a one-year certificate is 2 credits from each category and 8 credits total. No substitutions are allowed for related instruction. Consult the Apprenticeship and Trades Department for assistance in program planning.

Computation

Department for assis	stance in program planning. 8	
Computation		
APR 162	Calculations for the Trades	4
BA 111	Introduction to Accounting	3
MTH 105	Math in Society (MTH105=MTH105Z) Z	4
MTH 111	Precalculus I: Functions (MTH111=MTH111Z) ^Z	4
MTH 112	Precalculus II: Trigonometry (MTH112=MTH112Z) ^Z	4
STAT 243	Elementary Statistics I (MTH/ STAT243=STAT243Z) ^Z	4
MTH 244	Statistics II	4
MTH 251	Differential Calculus (MTH251=MTH251Z)	4
MTH 252	Integral Calculus (MTH252=MTH252Z)	4
MTH 253	Calculus: Sequences and Series (MTH253=MTH253Z)	5
PHY 101	Force, Motion, and Energy	4
PHY 201	General Physics	4
Communication		

Business Communication Using

Technology

4

COMM 100	Introduction to Communication (COMM100=COMM100Z)	4	SOC 221 SOC 232	Globalization and International Relations Death and Dying: Culture and Issues	4
COMM 111	Public Speaking (COMM111=COMM111Z) ^Z	4	WS 101	Women's Studies	4
COMM 111H	Public Speaking: Honors (COMM111H=COMM111HZ) ^Z	4	WS 201 WS 202	Intercultural Women's Studies Women, Activism and Social Change	4 4
COMM 112	Argumentation, Advocacy, and Debate	4	§		
COMM 140	Introduction to Intercultural Communication	4	Related Instruction	details can be viewed here.	
COMM 218	Interpersonal Communication (COMM214=COMM218=COMM218) Z	4	Z This course is part following courses a	of Oregon Common Course Numbering. The	
MSD 105	Workplace Communication Skills	3	COMM 100 and CO		
MSD 119A	Intercultural Communication	1	COMM 111 and CO		
MSD 138A	Male/Female Communication Differences	1	COMM 111H and C	COMM 111HZ	
MSD 141A	The Time-Stress-Communication Triangle	1		1 218, and COMM 218Z	
MSD 160A	Communication Styles	1	MTH 105 and MTH		
MSD 175B	Direct Communication in the Workplace	1	MTH 111 and MTH		
	•	1	MTH 112 and MTH MTH 243, STAT 243		
MSD 176	Nonverbal Communication		PSY 201A and PSY		
MSD 176A	Interpersonal Communication	1	PSY 202A and PSY		
WR 115	Introduction to College Composition	4	WR 121 and WR 12		
WR 121	Composition I (WR121=WR121Z) ^Z	4	WR 121H and WR	121HZ	
WR 121H	Composition I: Honors	4	WR 122 and WR 12		
	(WR121H=WR121HZ) ^Z		WR 122 and WR 12		
WR 122	Composition II (WR122=WR122Z) ^Z	4	WR 227 and WR 22	212	
WR 122H	Composition II: Honors (WR122H=WR122HZ) ^Z	4		CTRICIAN APPRENTICESHIP	
WR 227	Technical Writing (WR227=WR227Z) Z	4	TECHNOLOGI	IES CERTIFICATE	
Human Relations				uires a minimum of 16 credits of related class	
BA 285	Human Relations-Organizations	3		in this Certificate are many state certification	
CG 191	Exploring Identity and Diversity for	4		aining credits required depend upon which st	
	College Success			student is pursuing and the requirements of	tne
MSD 107	Organizations & People	3		prenticeship and Training Committee.	
MSD 115	Improving Work Relations	3	4000 Hour BOLI-AT	TD Trades: Limited Energy Technician-Licen	se
MSD 117	Customer Relations	3		ance Electrician, Limited Renewable Energy	
MSD 128	Crisis Intervention: Handling the Difficult	1	Technician, and Lir	mited Residential Electrician	
WOD 120	Person	'	Code	Title	Credits
MSD 151	Working with Difficult People	1	4000 Hour BOLI-A	TD Trades	
MSD 161	g =ep.	1	College credit cour	rses for Related-Training	16-44
MSD 162	The Art of Anger Management	1	Related Instruction	_	0
MSD 200	Organizations and Social Responsibility	3	Credit for Prior Cer		0
PSY 101	Psychology and Human Relations	4	Approved Program		0
PSY 201A	Introduction to Psychology I	4	Total Credits	Liodivoo	16-44
	(PSY201A=PSY201AZ)	•		SHIP ELECTIVES	10 11
PSY 202A	Introduction to Psychology II (PSY202A=PSY202AZ) ^Z	4		oproved 100 or 200 level PCC course.	
DCV 014	,	4			_
PSY 214	Introduction to Personality	4	INDUSTRIAL	MECHANICS AND MAINTENANC	E
PSY 215	Human Development	4	TECHNOLOG	Y APPRENTICESHIP PATHWAY	
PSY 216	Social Psychology	4	Industrial Mechanic	cs and Maintenance Technology Apprentices	hin
PSY 222	Family & Intimate Relationships	4	AAS Degree (p. 4)	or and Maintenance reenhology Apprentices	, iiip
PSY 231	Foundations of Human Sexuality	4		cs and Maintenance Technology Apprentices	ship
PSY 232	Human Sexuality in Social Context	4	Certificate (p. 4)		
PSY 236	Psychology of Adult Development and Aging	4		nance Apprenticeship Certificate (p. 6) MECHANICS AND MAINTENANC	=
PSY 239	Introduction to Abnormal Psychology	4			
PSY 240	Personal Awareness and Growth	4	I ECHNOLOG'	Y APPRENTICESHIP AAS DEGRI	==
SOC 204	Introduction to Sociology	4		tal credit requirement depends upon which s	
SOC 205	Social Change	4		student is pursuing and the requirements of	
SOC 206	Social Problems			prenticeship and Training Committee, howev	
		4		dits is required for all degrees. Math/compute	
SOC 213	Diversity in the United States	4	competency is met	through the courses in the program of study	
SOC 218	Sociology of Gender	4			

indicated with a & s	ymbol. Students should consult with prog	ıram	MTH 253	Calculus: Sequences and Series	5
advisors for course planning.				(MTH253=MTH253Z)	
Code	Title	Credits	PHY 101	Force, Motion, and Energy	4
4000-8000 Hour B0	DLI-ATD Trades		PHY 201	General Physics	4
APR 162	Calculations for the Trades §	4	Communication		
-	ses for Related-Training	16-75	BA 205	Business Communication Using Technology	4
General Education: Credit for Prior Cer		0-22	COMM 100	Introduction to Communication (COMM100=COMM100Z)	4
Approved Program	Electives	0-41	COMM 111	Public Speaking _	4
Total Credits		90-108	COMMITT	(COMM111=COMM111Z) ^Z	4
§			COMM 111H	Public Speaking: Honors (COMM111H=COMM111HZ) ^Z	4
Course cannot be	substituted for another course.		COMM 112	Argumentation, Advocacy, and Debate	4
INDUSTRIAL N	MECHANICS AND MAINTENAN	ICE	COMM 140	Introduction to Intercultural	4
	Y APPRENTICESHIP CERTIFIC			Communication	
This certificate requ	uires a minimum of 16 credits of related cl	assroom	COMM 218	Interpersonal Communication (COMM214=COMM218=COMM218Z) ^Z	4
	credits of related instruction. Embodied		MSD 105	Workplace Communication Skills	3
	r state certifications. Both the total related I related instruction credits depend upon		MSD 119A	Intercultural Communication	1
	p the student is pursuing and the requirer		MSD 138A	Male/Female Communication Differences	1
	Apprenticeship and Training Committee.		MSD 141A	The Time-Stress-Communication Triangle	1
8000 Hour BOLI-AT	D Trades: Boiler/Turbine Operator, Die C	ast Mold	MSD 160A	Communication Styles	1
	lator, Industrial Mobile Mechanic, Instrum	,	MSD 175B	Direct Communication in the Workplace	1
Technician, Machin	ist, Millwright, Motor Winder, Pipe fitter, R		MSD 176	Nonverbal Communication	1
Turner, and Welder			MSD 176A	Interpersonal Communication	1
Code	Title	Credits	WR 115	Introduction to College Composition	4
6000-8000 Hour B0	DLI-ATD Trades		WR 121	Composition I (WR121=WR121Z) Z	4
	rses for Related-Training	16-99	WR 121H		4
Related Instruction		9	****	Composition I: Honors (WR121H=WR121HZ) Z	
Credit for Prior Cer	tification	0	WR 122	Composition II (WR122=WR122Z) Z	4
Approved Program	Electives	0	WR 122H	Composition II: Honors	4
Total Credits		25-108		(WR122H=WR122HZ) ²	
1			WR 227	Technical Writing (WR227=WR227Z) ^Z	4
	ing liet balancian against a language		Human Relations		
See related instruct	ion list below for approved courses		BA 285	Human Relations-Organizations	3
RELATED INS	TRUCTION 1		CG 191	Exploring Identity and Diversity for College Success	4
Code	Title	Credits	MSD 107	Organizations & People	3
	instruction requirement within a		MSD 115	Improving Work Relations	3
	must pass courses from each category		MSD 117	Customer Relations	3
minimum requireme	munication, human relations). The ent for a two-year certificate is 4 credits		MSD 128	Crisis Intervention: Handling the Difficult Person	1
	and 16 credits total, the minimum ne-year certificate is 2 credits from each		MSD 151	Working with Difficult People	1
	dits total. No substitutions are allowed for		MSD 161	Working With Emiliant Foople	1
0 ,	Consult the Apprenticeship and Trades		MSD 162	The Art of Anger Management	1
Department for ass	istance in program planning. §		MSD 200	Organizations and Social Responsibility	3
Computation			PSY 101	Psychology and Human Relations	4
APR 162	Calculations for the Trades	4	PSY 201A	Introduction to Psychology I	4
BA 111	Introduction to Accounting	3	1012017	(PSY201A=PSY201AZ)	7
MTH 105	Math in Society (MTH105=MTH105Z) Z	4	PSY 202A	Introduction to Psychology II	4
MTH 111	Precalculus I: Functions (MTH111=MTH111Z) ^Z	4		(PSY202A=PSY202AZ) Z	
MTH 112	Precalculus II: Trigonometry	4	PSY 214 PSY 215	,	4
	(MTH112=MTH112Z) ^Z	•		Human Development	4
STAT 243	Elementary Statistics I (MTH/	4	PSY 216	Social Psychology	4
	STAT243=STAT243Z) Z		PSY 222 PSY 231	Family & Intimate Relationships Foundations of Human Sexuality	4
MTH 244	Statistics II	4	PSY 231		4
MTH 251	Differential Calculus	4	PSY 232 PSY 236	Human Sexuality in Social Context Psychology of Adult Development and	4 4
MTLLOFO	(MTH251=MTH251Z)	4	1 31 230	Aging	4
MTH 252	Integral Calculus (MTH252=MTH252Z)	4			

PSY 239	Introduction to Abnormal Psychology
PSY 240	Personal Awareness and Growth
SOC 204	Introduction to Sociology
SOC 205	Social Change
SOC 206	Social Problems
SOC 213	Diversity in the United States
SOC 218	Sociology of Gender
SOC 221	Globalization and International Relations
SOC 232	Death and Dying: Culture and Issues
WS 101	Women's Studies
WS 201	Intercultural Women's Studies
WS 202	Women, Activism and Social Change

Related Instruction details can be viewed here.

This course is part of Oregon Common Course Numbering. The following courses are equivalent:

COMM 100 and COMM 100Z

COMM 111 and COMM 111Z COMM 111H and COMM 111HZ

COMM 214, COMM 218, and COMM 218Z

MTH 105 and MTH 105Z MTH 111 and MTH 111Z MTH 112 and MTH 112Z

MTH 243, STAT 243, and STAT 243Z

PSY 201A and PSY 201AZ PSY 202A and PSY 202AZ WR 121 and WR 121Z WR 121H and WR 121HZ

WR 122 and WR 122Z WR 122 and WR 122HZ

WR 227 and WR 227Z

MECHANICAL MAINTENANCE APPRENTICESHIP CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training. Embodied in this certificate are many state certifications. The total related training credits required depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee.

4000 Hour BOLI-ATD Trades: Air Frame and Power Plant Technicians. Boiler Operator, and Programmable Logic Controller

Code	Title	Credits
4000 Hour BC	DLI-ATD Trades	
College credi	t courses for Related-Training	16-44
Related Instru	uction	0
Credit for Price	or Certification	0
Approved Pro	ogram Electives	0
Total Credits		16-44

APPRENTICESHIP ELECTIVES

Any department-approved 100 or 200 level PCC course.

LESS THAN ONE-YEAR CERTIFICATE: CAREER **PATHWAY**

Pre-Trades

Pre-Trades for Advanced Manufacturing (p. 6)

PRE-TRADES CAREER PATHWAY CERTIFICATE

Minimum 15 credits. Students must meet all certificate requirements.

Pre-Trades Certificate Courses

4

4

Code	Title	Credits
APR 162	Calculations for the Trades	4
APR 200A	Pre-Apprenticeship	3
APR 200B	OSHA 30 for Pre-Apprenticeship	3
APR 200C	Pre-Apprenticeship Hands-On Instruction	n 2
ELT 110	Introduction to Residential Electrical	3
	Wiring	
Total Credits		15

PRE-TRADES FOR ADVANCED MANUFACTURING CAREER PATHWAY **CERTIFICATE**

Minimum 16 credits. Students must meet all certificate requirements.

Pre-Trades for Advanced Manufacturing Certificate Courses

Code	Title	Credits
APR 162	Calculations for the Trades	4
APR 200D	OSHA 30 General Industry	3
or APR 200B	OSHA 30 for Pre-Apprenticeship	
ELT 125	Basic Programmable Logic Controllers	2
MCH 121	Manufacturing Processes I	5
WLD 190B	Basic Welding Practice	2
Total Credits		16