

## AT A GLANCE: Post Secondary Trade and Technical Courses

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Program	Schools/Organization	Program Contacts	Fee of Class	Prerequisites	Action to take	Length of Course	What will I learn
<b>Architectural Design and Drafting</b>	Portland Community College Portland, OR	971-722-4163	Tuition plus fees	Strong math skills, take a placement test. Good computer skills needed	Attend an info session Talk to program advisor	AAS- Arch/Design and Drafting One year or less that one yr Cert Sustainable Design, Accessibility Kitchen and Bath	Skills for residential design industry industry. Design and draft a residential structure. Work with engineers, architects, designers, corporate drafting departments.
<b>Auto Body Repair (See Automotive Technology at Chemekata)</b>							
<b>Auto Collision Repair and Refinishing Technology</b>	Clackamas Community College Oregon City, OR	David Bradley 503-594-3051 503-594-3047	Purchasing tools is recommended. Tuition plus fees	Some prerequisites may be required; talk to the Automotive Department at the college	Apply for program. Talk to advisor.	1 and 2 year Pathway programs/certificates AAS degree	Engine systems, restoration,welding Auto body repair Auto services
<b>Auto Collision Repair Technology</b>	Portland Community College Rock Creek Campus	971-722-7331 971-722-7486	Tuition plus fees	Basic levels in math & english required.	Take placement test meet with department advisor	1 and 2 year certificate	Automotive repair metal work, mechanics
<b>Automotive Machinin (See Automotive Technology at Chemekata)</b>							
<b>Automotive Service Technology</b>	Clackamas Community College Oregon City, OR	David Bradley 503-594-3051 503-594-3047	Tuition plus fees Purchase tools	some prerequisites may be required. Talk to Automotive Dept.	Talk to an advisor about admission & Placement test.	1 and 2 years. Pathway programs/certificates AAS Degree	All aspects of car repair Automotive repair metal work, mechanics
<b>Automotive Service Technology</b>	Portland Community College Sylvania Campus	971-722-7486 971-722-7331	Tuition plus fees	Some pre-requisite classes may be required.	Placement test. Meet with advisor, Attain permission slip	1 or 2 years. 3 week modules at 5 hours/day	Automotive services, equipment operating
<b>Automotive Technology</b>	Clark College Vancouver, WA	360-992-2551 360-992-2317 360-992-2309	Fees & tuition	Some pre-requisite classes may be required.	Placement test. Apply for program. Meet with advisor.	Toyota Technology Program Certificate program AAS Degree	Auto repair diagnostics and repair metal work, mechanics Trained for industry certificate exams
<b>Automotive Technology-</b>	Mt. Hood Community College Gresham, OR	503-491-7148 503-491-7470 503-491-7315	Varies by term. Opportunity to receive income while training.	Entrance requirements available on website.	ntact Ming.Sok@mhcc.edu call 503-491-7506	8 quarters = 2 years	Trains service/ repair technicians for Chrysler, Dodge or Jeep, Ford, Honda, Acura and import cars.
<b>Automotive Technology</b>	Chemeketa Community College Salem, OR	503-399-6521 503-399-5120	Tuition plus fees	Highschool Diploma/GED Some prerequisites in math writing and reading.	Make application Take a placement test Talk to counseling dept.	Various pathways/certificates plus AAS degree; 28,49,58 and 104 credit hour options	Auto mechanic, machining and auto body repair classes; basic skills in auto repair, engine machining and car maintenance.
<b>Aviation Maintenance Technology</b>	Portland Community College Rock Creek Campus - Dept. Office	503-722-7256	Tuition plus fees	Satisfactory levels in reading, writing & math	Placement test	1 and 2 yr. programs	Airplane maintenance
<b>Building Construction Technology</b>	Portland Community College Rock Creek Campus	971-722-7344 971-722-7403 971-722-7631	Tuition plus fees	Satisfactory levels in reading, writing & math	Meet with a Building Technology Advisor	AAS degree -in three specialty areas. Less than One-Year Certificate in Building Tech	Prepares students for hands on construction skills, construction management and design /build remodeling
<b>Building Construction Trades, General Apprenticeshi</b>	Clackamas Community College Salem, Oregon	503-594-3031 503-594-0945	Tuition plus fees	Student must be accepted in apprenticeship program by JATC	Contact Apprenticeship coordinator at School 503-594-3031	AAS and certificates of completions	Manual and construction trades and general Apprenticeship certificate of completion
<b>CAD/CAM Technology (Drafting)</b>	Clackamas Community College Salem, Oregon	Call Manufacturing Dept 503-3318 503-594-6100	Tuition plus fees	Call college for course requirements.	Call enrollment services for enrollment information-	ASS Degree Two year course in combined CAD/Cam technology	Manufacturing technician provides a company with computer aided manufacturing support. Design, print reading solid modeling, CNC machine tool operations
<b>Civil &amp; Mechanical Engineering</b>	Portland Community College Sylvania Campus	503-977-8730 503-977-4159	Tuition plus fees	Strong math skills. Prerequisite coursework probably applies.	Complete application, contact civil engineering department	AAS Degree in Engineering Technol with emphasis on Green Tech Two Year Certificate also	Trained technicians working on a team planning, designing, construction bridges, dams, highways, airport, and other projects
<b>Civil Structural Engineering</b>	Chemeketa Community College Salem, OR	503-399-5069 503-399-5225	Tuition plus fees	Strong math skills. Prerequisite coursework probably applies.	Placement test. Meet with Counseling & Career Svsc.	2 year degree	Public works, engineering, surveying
<b>Computer Aided Design and Drafting</b>	Clark College Vancouver, WA	360-699- 6398	Tuition plus fees	Placement test is required	Contact CADD Department if interested	Architectural CADD- Certificate Civil Engineering CADD- Certificate Mechanical CADD- Certificate	Offers Certificate of Proficiency programs three CADD areas; skills for industry or own contract design/drafting business
<b>Computer Aided Design and Drafting</b>	Portland Community College Portland, OR	Glen Truman 971-722-6236 at PCC	Tuition plus fees	Take a Placement Test for writing and math skills	Apply for admission Contact dept. advisor Take a placement test	Less than One-Year-Certificate of Completion in Computer Aided Drafting and Design (CADD)	Entry level: CADD programs/3-D modeling; work in engineering dept., Nike, Leupold & Stevens in binocular scope design, etc
<b>Construction Technology</b>	Clark College Vancouver, WA	360-699-6398	ab fees plus tuitio	Some pre-requisite are required.	Apply for program. Placement test. Meet with advisor.	Construction Techician (CP) AAS/AAT in Construction	Bidding, estimating and concepts and codes for residential & commercial construction

<b>CPR</b> Lifeline CPR 9320 SW Barbur Blvd. Suite 175 Portland OR	503- 243-2277 888-750-4288 toll free cprlifeline.com	\$32, \$40 and \$60 depending on the type of class	none none	Go to website to sign up cprlifeline.com	Heartsaver first aid certification	Basic first aid, choking, medical and environmental injuries, CPR Essential prerequisite for many trades careers
<b>CPR</b> American Heart Association	www.americanheart.org Click on CPR-ECC.		none		all ages: 4.5 hrs. adults only: 2.5 hrs.	Essential prerequisite for many trades careers
<b>CPR/First Aid</b> American Red Cross	redcross.org 503-284-1234	varies \$35-70	none	Sign up online for local or online classes	Certificate for Adult First Aid/CPR/AED	Essential prerequisite for first aid/cpr skills on the the job
<b>Crane Operator &amp; Rigging</b> West Coast Training, Inc. Woodland, WA	Rhoda Becker 360-225-6787 800-755-5477	Call West Coast Training for tuition details	At least 16.5 yrs. old HS Diploma or G.E.D. Personal interview.	Call for details and to enroll.	4 week intensive 160 hours	Equipment operating, used in many construction fields
<b>Deal Service Technology (ThinkBIG program)</b> Portland Community College Portland, Or	971-722-7887 971-722-7465	Tuition paid on the job training.	Take a placement test at PCC or CAT dealership. Limited slots available to program.	Make application to the program.	Two year program that includes on the job training that is paid AAS on completion	Prepares students for Caterpillar Dealer Service Technician/mechanic Repair all types of equipment: agricultural, construction, forestry and earthmoving.
<b>Diesel Service Technology</b> Clark College Vancouver, WA	360-699- 6398	Tuition plus fees	Placement test Some pre-requisite classes may be required.	Apply for program. Placement test. Meet with advisor.	Diesal Tech (CP) Diesal Technologies- AAS and AAT	Fuel systems, modern diesel technology, Entry level into Diesal Technician Field
<b>Diesel Service Technology</b> Portland Community College Rock Creek Campus	971-722-7488 971-722-7489	Tuition plus fees Student required to buy tools	Satisfactory levels in reading, writing & math	Attend program info session Placement test Meet with advisor	AAS-Diesel Service Technology Two year Certificate One Year Certificate	Entry into diesel engine and subsystems Equipment Operator/ Operating Engineer
<b>Drafting</b>	(See Computer Aided Design/Drafting at Clark College and Portland Community College; Engineering and Drafting Technology at Chemeketa;CAD/CAM Technology at Clackamas Community College)					
<b>Dump Truck Operator</b> West Coast Training, Inc. Woodland, WA	Rhoda Becker 360-225-6787 800-755-5477	Call West Coast Training for tuition details	At least 16.5 yrs. old HS Diploma or G.E.D. Personal interview.	Call for details and to enroll.	1 week, 40 hours	Equipment operating, used in many construction fields
<b>Electrician Apprenticeship Technologies</b> Clackamas Community College Salem, Oregon	Leslie Donahue 503-594-3031 Shelly Tracy 503-594-0945	tuition plus fees	Must first be accepted into apprenticeship program by Joint Apprenticeship Training Council	Contact Apprenticeship Coordinator or Director	Certificates of Completion and AAS degree.	Limited Electrician Apprent. Cert. of Comp. Electrician Apprent. Tech. Cert. of Comp Electrician Apprent. Tech. AAS Can transfer into BS degree
<b>Electrical Trades/ Apprenticeship</b> Portland Community College Southeast Center	971-722-5651 971-722-5650 Katrina McCloud	plus tuition. See Training Specialist	Age/education/experience requirement through Joint Apprenticeship and Trainin committee.	Attend an orientation at Cascade campus;	Varies	stationary engineers, manufacturing plant electricians, limited maintenance electricians, and HVAC/Refrigeration.
<b>Electronic Engineering Technology</b> Portland Community College Sylvania Campus	503-722-8730 971-722-4159	Tuition plus fees see catalogue or we	Must test at or above required test levels.	Placement test. Complete application.	AAS, One-year Certificate and Less that a year certificate available in Renewable Energy Systems	applied electronics for technicians, manufacturing, controls, laboratories, system testing and design, biomedical
<b>Electronic Technologies</b> Chemeketa Community College Salem, OR	Charles Sekafetz 503-399-6254	Tuition plus fees see catalgue or we	Some pre-requisite classes may be required.	Placement test Pathway track in electronic careers	AAS in Industrial electronics, Comp electronics, Process control, Renewab Energy; Certificates also available	Industrial instrumentation, techncian, calibration technician, power plant operators, diverse field for electronics
<b>Electronic Engineering Technology</b> Clackamas Community College Oregon City, OR	503-594-3318 503-594-3322	Tuition plus fees see catalogue or we	HS diploma or GED 18 yrs. of age, writing & math basics	Placement Test see admissions, testing	1 and 2 years Certificate or AAS	Entry level for variety of industries circuit board manuf, medical electronics, Electronic equipment maintenance
<b>Engineering and Drafting Technology</b> Chemeketa Community College Salem, OR	503-399-5069 503-399-5225 503-399-5072	Tuition plus fees	Some pre-requisite classes may be required.	Contact Drafting and Eng. Dept	Certificates in Architectural, CAD, and Survey Techology AAS degree in CADD	Entry level CAD postions as a drafter, mapping techniques,mechanical and architectural drafter; CAD operator
<b>Engineering Technology</b> Mt. Hood Community College Portland , OR	503-491-7292	Tuition plus fees	prerequisites required, math and writing	Placement tests see admissions, testing	EngineeringTechnology; Architectura g. Tech; Civil Eng.Tech; Environmen Eng.Tecn AAS degrees	Engineering techs for engineering teams highway, airport,water, sewer projects city/state infrastructure, building construction; Surveyors, CAD, project design.
<b>Facilities Maintenance Technology (Refrigeration/HVAC)</b> Portland Community College Southeast Center	971-722-5651 971-722*5650	Tuition plus fees see catalogue or website	math and writing proficiency Must test at or above required test levels.	Take placement test Chek for financial age and application process	AAS-Facilities Mainten. Technician Less that a year certificate available for hvac installer, pre-apprenticeshi	Maintenance of HVAC systems in large building complexes. Maintain piping and mechanical systems
<b>Flagging Certification</b> D & H Flagging, Inc. 1612 SE Holgate, Portland	503-232-2488 see website	Call for info on cost	none	Call for schedule	Certificate Classes 4 hour class	Entry level flagging position training
<b>Flagging Certification/ODOT</b> Chemekata College, Salem	503-399-5181	\$175.00	Class is 4 hours long, open book test,	ontact Chemeketa for trainin times and costs.	4 hour class-student will receive ODOT Flaggers Certification Card	Entry level flagging position.
<b>Forklift &amp; Crane Certification</b> Overton Safety Engineering, Inc. Aloha, OR	866-531-0403 503- 356-0403	Call for fee info	Forklift: operating exp. Crane: Must have operator certification	Must pre-register classes start thout the year	Register on-line Classes vary--see website	Equipment Operator, earth moving, cranes material handling and safety courses Useful in many trades
<b>Forklift Certification</b> Norlift of Oregon, Inc	see website call 503-209-1021	Call for fee info	Call for info	Call or visit website Monthly classes	Training fulfills the basic OSHA requirements for certification	Forklift training and certification

<b>Heavy Equipment Training</b> West Coast Training, Inc. Woodland, WA	800-755-5477 360-225-6787	call school for current prices	At least 16.5 yrs. old HS Diploma or G.E.D. Personal interview.	Call for details and to enroll	8 week intensive, 320 hours	Variousse classes: heavy equipment operation for logging, demolation, and construction.
<b>Line Worker</b> NW Line JATC/VOLTA Vancouver, WA	360-816-7100 <a href="http://www.nwlinejatc.com">www.nwlinejatc.com</a>	call for current course cost	GED, 18 yrs old, no drug, current driver license, able to get comm. License, physically fit	See website or call for more information. All forms online	Apprenticeship 2-5 years 144 instructional training Work while learning	Training in outside electrical industry. Power line workers, power line clearance, and power ground workers.
<b>Machine Manufacturing Technology</b> Clackamas Community College Oregon City, OR	503-594-3318 503-594-3322	Tuition plus fees	Math, reading, writing skills. High school diploma or GED Contact admissions	Take placement test Make application Speak to Financial Aid	Entry level training/Career Pathway 1 and 2 year programs AAS	Machining, set up, programming and operation, CNC machine, Manufacturing skills
<b>Machine Manufacturing Technology</b> Portland Community College Sylvania Campus	977-722-4155 977-722-4130	Tuition plus fees	Math, reading, writing skills. Prerequisite classes for advanced level courses	Placement test Talk to department and advising	AAS in Machine Manuf. Technology CNC Turning and Milling Certs. Manufacturing Tech. Cert	Machining, set up, programming and operation, CNC machine, Manufacturing skills
<b>Machining Technology</b> Clark College Vancouver, WA	360-992-2345 360-992-2341	Tuition plus fees	Speak to department and advisor Prerequisite classes for advanced level courses	Apply for program. Placement test. Meet with advisor.	Cert. of Proficiency and AAS, AAT Manual machining, machining technologies and Machining Tech.	Machining, set up, programming and operation, CNC machine, Manufacturing skills
<b>Machine Tool Technology/Integration Metals Program</b> Mt. Hood Community College Gresham, OR	Zach Canjar-503-491-7237 503-491-7207 503-491-7237	Tuition plus fees	Satisfactory levels in reading, writing & math Placement test	Placement test. check for a waiting list call for financial aid talk to an advisor	1 year certificates for Machine tool operator and Machine Tool Technology limited entry-check about waiting list AAS also available	Machining, set up and operation CNC machine. CAD/CAM software Operation of lathes, milling machines and other skills related to manufacturing
<b>Microelectronics System Technology</b> Clackamas Community College Oregon City, OR	503-594-3318 503-594-6100	Tuition plus fees	Placement test required	Apply for program. Talk to Department contact testing	1 and 2 year programs AAS	entry-level employment as a technician and operators and processors with large and small employers in high tech industries
<b>Renewable Energy Technology</b> Clackamas Community College Oregon City, OR	503-594-3318 503-594-3322	tuition plus fees	Placement test may be required. Contact department.	Apply for program. Contact Dept/ admissions	AAS Renewable Energy Tech one year program	Entry level-tech manufacturing, intallation, maintenance of renewable energy systems, system designs and controls opport. In utility and building trades
<b>Survey-- Geomatic and Engineering Technology</b> Chemeketa Community College Salem, OR	503-399-5120 503-399-5210 503-399-5069	Tuition plus fees	Placement test Some prerequisite classes may be needed.	Apply online; Speak to Financial Aid Attend an orientation	Pathway programs-see an advisor one to two year options	Entry level positions in surveying & drafting Courses may be applied to an AAS in CAD Drafting Techonology
<b>Truck Driving</b> Clackamas Community College Oregon City, OR	503-594-3064 Paul Warner	Tuition plus fees	Contact Applied Technology 503-594-3064	Contact Dept/ admissions	Less Than a Year Certifcate Four Classes	Transportation and Logistics field Commercial Drivers license(CDL) with ITR truck driving school
<b>Utility Trade Preparation: Lineworker</b> Clackamas Community College Oregon City, OR	503-594-0945 503-594-0942	Tuition plus fees	18 yrs plus, drivers license, physically fit, comfortable heights, placement test	Contact Energy and Utility Resource Managemnt Dept see phone numbers	Certificate	Prepares student to work in outside line construction industry
<b>Utility Workforce Readiness</b> Clackamas Community College Oregon City, OR	503-594-0944 503-594-0945	Tuition plus fees	Placement test; drivers' license, Able to obtain a CDL Capable of physical activicity	Meet with a department advsor	Career pathway program Certificate	Entry level jobs in the utility industry.
<b>Welding Technology</b> Clackamas Community College Oregon City, OR	503-594-3387 503-594-3064	Tuition plus fees	Placement test Some prerequisites may be needed	Apply online attend orientation Meet with advisor.	certificate in welding One and Two year options AAS Degree	Welding fabrication for products, vehicles, heavy equipment, ship and boat repair; learn various types of welding specialties.
<b>Welding Technologies</b> Clark College Vancouver, WA	360-992-2341 360-699-6398	Tuition plus fees	Placement Test may not be required Check with college for other requirements	Meet with advisor	9 month , one &two year course AAS American Welding Soc. Cert. programs vary	Welding fabrication and fitting skills; Steel worker, maintenance and repair Production work, operator, helper, welding inspector, sales etc
<b>Welding Technology-Integrated Metals Department</b> Mt. Hood Community College Gresham, OR	503-491-7470 503-491-7209	Tuition plus fees	placement test Satisfactory levels in reading, writing & math	Speak to Department. limited entry to some program Contact Dept/ admissions	9 month certificate. or one and two year options Various programs	Various welding specialties taught for ironwork, fabrication, etc AWS Certification
<b>Welding Technology</b> Portland Community College Rock Creek Campus	971-722-7600 503247-1724	Tuition plus fees plus some personal equipment	Placement test Satisfactory levels in reading, writing & math	Get admitted, take placement test, check for finanacial aid Get on waitlist for this program	AAS in Welding Technology Less Than a Year options see catalogue or website	Training in 6 welding specialties trades including ironwork, sheetmetal & automotive
<b>Welding Technology</b> Chemeketa Community College Salem, OR	Advising 503-399-5120 Mike Pintler 503-399-6059	Tuition plus fees	Satisfactory levels in reading/math Placement test required	Apply, take placement test and attend orientation limited enrollment so check	Three term certificate AAS in Welding Technology	Welding specialties, fabrication, machining and manufacturing learn CNC controlled equipment Depends on program enrollment