

Career Launch Endorsement Review (CLER) Application

Diesel Program



INSTITUTION _Lake Washington Institute of Technology_____

PROPOSED PROGRAM _Diesel Technology_____

PROGRAM CIP_47.0605__PROGRAM EPC (Legacy) _775A_PLAN CODE
(PeopleSoft)_____

NAICS Code_____

Please note: **Registered Apprenticeship programs become automatically endorsed for Career Launch.** You need not submit an application.

CONTACT INFORMATION

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04/30/2020

Chief Academic Officer

Date

Application
contact:

Scott A. Copeland
Associate Director, College Relations and Policy
Guidance
Education Division
Washington State Board for Community and Technical
Colleges
Office: 360-704-4397

Applications reviewed monthly and are due the first business day of the month.

Electronic submissions only to scopeland@sbctc.edu

Introduction

The Career Launch Program Endorsement recognizes high-quality career connected learning opportunities addressing persistent educational opportunity gaps, meeting the talent needs of employers and leading to academic learning and building awareness of, exposure to, and preparation for career opportunities.

Application Materials

This abbreviated application is designed to assist the Career Launch application process for adding similar fields of study previously endorsed.

Please note the following:

- Respond completely to the following three (3) checklist requirements in your submission packet.
- Include letter(s) of endorsement and letter(s) of employer partners.
- Submit your completed application to Scott Copeland at scopeland@sbctc.edu.

Program and Industry-Related Checklist

P1. Program description including length of program in years and total hours (including split between classroom and worksite). Include program plan/degree planner.

The Diesel and Heavy Equipment Technician AAS degree is a five quarter program that educates and mentors students in the latest technology, equipment, ideals, and fuel systems that power the diesel and heavy equipment industry today and in the future both close to home and at locations worldwide. It prepares students for lifelong learning and skill development, help students realize their potential to be successful at their careers and improve our community, economy and environment.

Diesel and Heavy Equipment Technician AAS degree students learn how to diagnose problems and perform repairs on various vehicle components including engines, fuel, cooling, electrical, electronic, hydraulic, brake, suspension, undercarriage, power-shift and drive-train systems in the trucking and heavy equipment industry. Students will spend their first term training in a transportation core curriculum. The laboratory area simulates an industry environment. Students who have met the course objectives may be placed in a cooperative work experience to further develop their skills on the job.

Diesel and Heavy Equipment Technician AAS degree graduates will:

- be prepared to obtain an entry-level repair technician position in their field
- perform repairs on various diesel vehicles, vehicle components and equipment
- develop lifelong educational and employment goals
- establish an appreciation for life-long learning
- be prepared to succeed on the ASE certification and OEM certification exams
- meet minimum competency in eight categories identified as essential for employability: adherence to policy and procedure, technical knowledge, skill application, work planning, quality of work, quantity of work, interpersonal skills, oral and written communication
- demonstrate advanced skills in: diagnostics, repair and maintenance, electronics, hydraulics, power train, engines, pneumatics, undercarriage, brakes and welding.
- demonstrate critical thinking, teamwork, communication, intercultural appreciation, and information literacy skills
- meet Social Science, Humanities, Written Communication, and Quantitative Reasoning distribution area outcomes

Program Requirements

Annual Course Sequence

The classes listed below are offered on a five quarter rotation with 250 hours of lecture/lab combinations in each quarter. The classes rotation and are not sequential after the prerequisite quarter; a student may start any quarter and should take the program classes in blocks as listed below.

[ENGL 093](#) and [MATH 087](#) must be taken prior to any DHET course. Placement into [ENGL 099](#) or higher and [MATH 098](#) or higher meets this requirement.

CWEX Cooperative Work Experience may be completed in the last 3 quarters of the program by instructor permission only.

Prerequisite Quarter

- [ENGL 093 Beginning English](#) 5 credits
- [MATH 087 Quantitative Literacy](#) 5 credits

Winter Quarter 2020

- [DHET 221 Power Trains/Standard](#) 6 credits
 - [DHET 222 Power Trains/Power Shift](#) 6 credits
 - [DHET 223 Traction and Components](#) 3 credits
 - [MATH 098 Essentials of Intermediate Algebra](#) 5 credits (prerequisite for students planning to take transferable MATH& 107)
- OR*
- [MATH 105 Applied Math](#) 5 credits (course meets MATH requirement for the AAS degree but is not transferable)

Spring Quarter 2020

- [DHET 231 Steering/Suspension/Frames](#) 5 credits
- [DHET 232 Pneumatics](#) 5 credits
- [DHET 233 Foundation Brakes](#) 5 credits
- [MATH& 107 Math in Society](#) 5 credits

Summer Quarter 2020

- [DHET 211 Hydraulic Fluid Power I](#) 6 credits
- [DHET 213 Hydraulic Fluid Power II](#) 6 credits
- [DHET 214 Diesel Mechanical Practices](#) 3 credits
- [ENGL 099 Intro to Essay Writing](#) 5 credits (prerequisite to ENGL& 101)

Fall Quarter 2020

- [DHET 122 Welding Applications](#) 4 credits
- [DHET 123 Heavy Duty Electrical Systems](#) 4 credits
- [DHET 124 Electronic Applications](#) 4 credits
- [DHET 125 Basic Maintenance](#) 3 credits
- [ENGL& 101 English Composition I](#) 5 credits
- IFAD First Aid course 0.5 credits

Winter Quarter 2021

- [DHET 131 Engine Principles/Components](#) 3 credits
- [DHET 132 Gasoline/Liquid Propane Gas Systems](#) 3 credits
- [DHET 133 Diesel Systems](#) 3 credits
- [DHET 134 Fuel Injection](#) 3 credits
- [DHET 135 Diagnostics/Adjustments/Emissions](#) 3 credits
- [PSYC& 100 General Psychology](#) 5 credits (or any course with BUS&, ECON&, PSYC&, SOC&, CJ&, or POLS& as the prefix)

Cooperative Work Experience

CWEX 190 can be taken in the fourth quarter. CWEX 197 can be divided among the fourth through sixth quarters, totaling four credits (e.g., fourth quarter: 1 credit, fifth quarter: 1 credit, sixth quarter: 2 credits).

- [CWEX 190 Cooperative Work Experience Seminar I](#) 1 credits-10 hours
- [CWEX 197 Cooperative Work Experience I](#) 1-5 credits-- 200 hours(4 credits required)

- [CMST& 210 Interpersonal Communication](#) 5 credits (or any course with CMST&, ART/ART&, ASL&, SPAN&, HUM, ENGL&, or HIST& as the prefix)

I-R1. Address of worksite(s) where Career Launch students will complete supervised training

The following employers have been utilized by students for CWEX.

Cadman	18816 NE 80th St, Redmond, WA 98052	425-867-1234
Cummins	1800 Fryar Ave, Sumner, WA 98390	425-235-3400
N.C. machinery	14597 169th Dr SE, Monroe, WA 98272	360-805-6000
N.C. machinery	17025 W Valley Hwy, Tukwila, WA 98188	800-562-4735
John Deere	Washington Tractor Bellingham, WA 98225	360-671-3266
Peterbuilt	Western Truck Center - Marysville 15330 Smoket Point Blvd, Marysville WA 98271	360-659-7383
Pape' Kenworth	1130031ST Dr Ne, Marysville Wa 98271	360-658-7049
Mack Trucks	25619 Pacific Hwy S Des Moines, Wa 98198	800-325-4709
Waste Management	6211 234th St SE, Woodinville, WA 98072	425-481-6205
King County Metro	12100 East Marginal Way South, Tukwila, WA 98168	206-553-3000
Community Transit	7100 Hardeson Road Everett, WA 98203	800-562-1375
WA DOT	26620 S 266th St, Kent Wa 98032	360-705-7438
WA State Ferry System	5834 Ward Ave NE, Bainbridge Island, WA 98110	206-842-4003
City of Seattle	805 S Charles St, 98134	206-255-7563
City of Everret	3201 Smith Ave Everett Wa, 98201	425-257-7777
Motor trucks	315 Riverside Rd, Everett, WA 98201	425-258-2691
Freightliner Northwest	277 Stewart Road SW Pacific, WA 98047	800-523-8014
Total Terminals International	401 Alaskan Way S, Seattle, WA 98104	206-622-9130
Moe's Truck Repair	715 8th Street, Suite B, Kirkland, WA 98033	425-576-9766

Gallery Marine	717 NE Northlake Way, Seattle, WA 98105	206-547-2477
OSW equipment and repair	20124 Broadway Ave, Snohomish, WA 98296	425-483-9863
Ryder truck repair	13624 NE 177th Pl, Woodinville, WA 98072	425-486-6489
Penske leasing	18441 E Valley Hwy, Kent, WA 98032	425-251-9555
RDI marine	2225 W Commodore Way, Seattle, WA 98199	206-286-1230
Bellevue school district	12025 NE 5th St, Bellevue, WA 98005	425-456-4512
Issaquah school district	805 2nd Avenue SE Issaquah, WA 98027	425-837-6330
Pape machinery	19808 68th Ave S, Kent, WA 98032	206-575-0140
S and B truck repair	7412 South 212th Street Kent, WA 98032	253-872-7483
MER Marine	2400 W Commodore Way, Seattle, WA 98199	206-286-1817
Fischer Trucking	7303 W Bostain Road Bldg 2a Woodinville, WA 98072	425-493-4250
Star Machinery Rentals	12900 Northrup Way, Bellevue, WA 98005	425-885-5522
Northern Light inc	4420 14th Ave NW, Seattle, WA 98107	800-762-0165
Pacific topsoil	13517 35th Ave SE, Mill Creek, WA 98012	800-884-7645
Green Diamond Resource	1301 5th Ave #2700, Seattle, WA 98101	206-224-5800
Mac Towing and Truck Repair	8501 152nd Ave NE, Redmond, WA 98052	425-822-2800
Rabanco	1600 127th Ave Ne, Bellvue, Wa 98005	425-542-4762
United Rental kirkland	12500 132nd Ave NE, Kirkland, WA 98034	425-823-1177
United Rental everett	2810 Highland Ave, Everett, WA 98201	425-259-6108
Hertz Heavy Equipment everett	3516 McDougall Ave, Everett, WA 98201	425-303-6900
Hertz Heavy Equipment seattle	4233 Leary Way NW, Seattle, WA 98107	206-782-4200
Smokey point concrete	23315 Dike Rd, Arlington, WA 98223	360-435-5791
Sunbelt equipment	19265 Woodinville Snohomish Rd Woodinville, WA 98072	425-486-6060
Lennon Crane	17131 Beaton Rd SE, Monroe, WA 98272	360-863-0333

Plywod Supply	7036 NE 175th St, Kenmore, WA 98028	425-485-8585
Hatton Marine	4735 Shilshole Ave NW, Seattle, WA 98107	206-283-5501
Lake Washington School District	15212 NE 95th St, Redmond, WA 98052	425-936-1120
Monroe School District	200 East Fremont St, Monroe Wa 98272	360-804-2500
Fleet Pride	600 S Dakota St, Seattle, WA 98108	206-343-1500
Nelson trucking	9777 Martin Luther King Jr Way S, seattle WA 98118	206-723-3000
Miles sand and gravel	2516, 400 Valley Ave NE, Puyallup, WA 98372	253-833-3705
Santana Trucking & Excavating	22725 Red-Fall City Road, Redmond, WA 98053	425-868-1111

I-R2. Hourly wage of Career Launch participants

Of the historical documents found, CWEX participants had wages of \$15 per hour.

End of Application