

Teri Gardner 8-21-2020

Department of Labor & Industries  
Apprenticeship Section  
PO Box 44530  
Olympia WA 98504-4530



## REQUEST FOR REVISION OF STANDARDS

Received 08/21/2020  
By S Patterson

L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

From: C & R TRACTOR & LANDSCAPING, INC. APPRENTICESHIP PROGRAM #1930  
(NAME OF PROGRAM STANDARDS)

Please update our Standards of Apprenticeship to reflect the following changes.

Additions shall be underlined.

Deletions shall be ~~struck through~~.

See attached.

Authorized signatures

(chr.)

(sec.)

date:

Approved by:

Washington State Apprenticeship & Training Council

Secretary of WSATC:

date:

8/20/2020

attach additional sheets if necessary

# C & R TRACTOR & LANDSCAPING, INC. APPRENTICESHIP PROGRAM #1930

## INTRODUCTION

*Teri Gardner 9-9-2020*

C&R Tractor & Landscaping have adopted the apprenticeship system as a means of providing a continuing supply of skilled Landscape Construction Workers and Laborers for ~~all branches of the industry~~ the state of Washington.

Occupational Objective(s):	SOC#	Term [WAC 286-05-015]
LANDSCAPE CONSTRUCTION WORKER	37-3011.00	4000 HOURS
<u>LABORER</u>	<u>47-2061.00</u>	<u>8000 HOURS</u>

### I. GEOGRAPHIC AREA COVERED:

~~Clark, Cowlitz, King, Lewis, Pierce, and Thurston Counties.~~

The State of Washington

### II. MINIMUM QUALIFICATIONS:

- Education: ~~High School Diploma or GED, or equivalent. (must provide proof)~~  
Applicants shall submit proof of the education to the Committee before their applications will be considered completed.
- Physical: ~~Must be able to meet the physical requirements of the occupation, with or without reasonable accommodations and without endangering the safety or health of co-workers.~~
- Other:
- a. Applicant must possess and provide proof of having a current valid driver license.
  - b. ~~Applicants must provide proof of valid automobile insurance.~~
  - c. ~~Applicants must be able to pass a drug/alcohol test in accordance with C & R Tractor & Landscaping, Inc. company policies, prior to being hired. Test will be paid for by C & R Tractor and Landscaping, Inc.~~

### III. CONDUCT OF PROGRAM UNDER WASHINGTON EQUAL EMPLOYMENT OPPORTUNITY PLAN:

#### A. Selection Procedures:

~~Exempt per WAC 296-05-405(1)(a) for sponsors with fewer than five apprentices.~~

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1. All individuals will take and pass a drug/alcohol test with negative findings prior to registration as a registered apprentice. Test will be paid for by C&R Tractor and Landscaping, Inc.
2. Applications will be available on a year-round basis, Monday through Friday 8:00 AM to 5:00 PM excluding the following holidays, January 1<sup>st</sup>, July 4<sup>th</sup>, Thanksgiving and December 25<sup>th</sup>, to all interested individuals at: 3829 Pleasant Hill Road Kelso, WA 98626. Applications are also available online at [www.candrtractor.com](http://www.candrtractor.com)
3. All applications submitted must have original signature of applicant. Applications must be hand delivered, delivered via US Postal Service, or other courier. Applications must be sent to C&R Tractor and Landscaping, 3829 Pleasant Hill Rd.; Kelso, WA 98626. Email applications will be accepted at the following address: [tiffany@candrtractor.com](mailto:tiffany@candrtractor.com).
4. After completing the application and providing the required documentation to meet the minimum requirements, an applicant will be scheduled for an interview. Interviews will be held at a minimum once per quarter, and as otherwise determined by the Committee.
5. The Committee will determine the number of applicants to be hired prior to holding interviews.
6. Applicants will be placed in a ranked pool based on interview scores.
7. Interviews:
  - a. The interviewers shall have in their possession for each applicant: Application form and relevant documentation of education.
  - b. Each applicant shall be interviewed individually.
  - c. Questions will be for evaluation purposes focused on work experience and motivation to complete the program.
  - d. Evaluation must be based on industry standard needs and not by comparison with other applicants.
  - e. Evaluation of interview will be based on scale of 0-5 with 0 being unacceptable and 5 being excellent on each topic. In the event of a tie, educational transcript GPA will be used to rank those tied.
  - f. All applicants will be asked the same questions.

B. Equal Employment Opportunity Plan:

~~Exempt per WAC 296-05-405(1)(a) for sponsors with fewer than five apprentices.~~

1. Distributing information about the nature of apprenticeship program, program admission requirements, current apprenticeship opportunities, sources of apprenticeship applications, and the equal opportunity policy of the sponsor.

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2. Engage in such programs designed to recruit, pre-qualify and place minorities and women (minority and non-minority) in apprenticeship.
3. Grant Credit for previous trade experience or trade-related courses for all applicants equally.

## IV. TERM OF APPRENTICESHIP:

- A. The term of apprenticeship for Landscape Construction Worker shall not be less than 4000 hours of reasonable continuous employment.
- B. The term of apprenticeship for Laborer shall not be less than 8000 hours of reasonably continuous employment.

## V. INITIAL PROBATIONARY PERIOD:

- C. Apprentices employed in accordance with these standards shall be subject to an initial probationary period of the first 800 hours of employment-for Landscape Construction Worker and 1600 hours of employment for Laborer. During the initial probationary period, either party without the formality of a hearing may cancel the apprenticeship registration.
- D. During the initial probationary period, the Committee shall make a thorough review of the apprentice's ability and development. Prior to the end of the initial probationary period, action must be taken on each probationary apprentice to end the probation or cancel the registration. All parties shall be notified of such action.

## VII. APPRENTICE WAGES AND WAGE PROGRESSION:

### C. Landscape Construction Worker Wage Progression Schedules

#### Landscape Construction Worker

Step	Hour Range or competency step	Percentage of journey-level wage rate*
1	0000 – 1000 hours	75%
2	1001 – 2000 hours	80%
3	2001 – 3000 hours	85%
4	3001 – 4000 hours	90%

~~Step one will always meet or exceed WA state minimum wage.~~

#### Laborer

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<u>Step</u>	<u>Hour Range or competency step</u>	<u>Percentage of journey-level wage rate*</u>
<u>1</u>	<u>0000 – 1000 hours</u>	<u>60%</u>
<u>2</u>	<u>1001 – 2000 hours</u>	<u>65%</u>
<u>3</u>	<u>2001 – 3000 hours</u>	<u>70%</u>
<u>4</u>	<u>3001 – 4000 hours</u>	<u>75%</u>
<u>5</u>	<u>4001 - 5000 hours</u>	<u>80%</u>
<u>6</u>	<u>5001 – 6000 hours</u>	<u>85%</u>
<u>7</u>	<u>6001 – 7000 hours</u>	<u>90%</u>
<u>8</u>	<u>7001 – 8000 hours</u>	<u>95%</u>

## VIII. WORK PROCESSES:

### A. Landscape Construction Worker

### Approximate Hours

- ~~1. Analyze and read landscape blueprint.....100~~
- ~~2. Adjust design issues .....200~~  
~~Layout plants for best balance and maintenance.~~
- ~~3. Constructing or maintaining lawns, yards, gardens, or other landscape surfaces.....400~~
- ~~4. Mixing and spreading mulches, ground cover, soil amendments, decorative bark, or decorative rock .....400~~
- ~~5. Seeding, sodding, or hydro seeding .....200~~
- ~~6. Applying chemicals or fertilizers .....200~~
- ~~7. Planting trees, shrubs, or plants .....400~~
- ~~8. Installing, servicing or repairing above ground lawn or landscape sprinkler systems .....400~~
- ~~9. Installing, servicing or repairing underground lawn or landscape to a maximum depth of three feet below finish grade.....400~~
- ~~10. Assemble or placing pre-manufactured trellis work, play equipment, benches, or picnic tables.....50~~
- ~~11. Constructing rock walls to a maximum height of four feet .....50~~

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<del>12. Land clearing and/or grubbing to a maximum depth of six inches below finished grade .....</del>	<del>200</del>
<del>13. Spreading top soil to maximum depth of six inches below finish grade ....</del>	<del>300</del>
<del>14. Trenching to a maximum depth of three feet below finish grade.....</del>	<del>200</del>
<del>15. Installing French drains of other subsurface water collection systems to a maximum depth of three feet below finish grade.....</del>	<del>100</del>
<del>16. Hauling top soil, plants, or other landscaping materials in trucks with only one rear axle .....</del>	<del>100</del>
<del>17. Maintain and repair tools.....</del>	<del>100</del>
<del>18. Practice safe work habits.....</del>	<del>100</del>
<del>19. Keep job records and write reports .....</del>	<del>100</del>

Core Competencies: .....2000 hours

### 1. Landscape Construction Technique

Analyze and read landscape blueprints.

Adjust design issues.

Layout plants for best balance and maintenance.

Constructing or maintaining lawns, yards, gardens, or other landscape surfaces.

Mixing and spreading mulches, ground cover, soil amendments, decorative bark, or decorative rock.

Seeding, sodding, or hydro seeding.

### 2. Landscape Maintenance

Applying chemicals or fertilizers.

Planting trees, shrubs, or plants.

Installing, servicing or repairing above ground lawn or

Landscape sprinkler systems.

### 3. Safety

Maintain and repair tools.

Practice safe work habits.

Areas of Concentration .....2000 hours

### 4. Landscape Irrigation

Installing, servicing or repairing above ground lawn or

Landscape sprinkler systems.

Installing, servicing or repairing underground lawn or

landscape to a maximum depth of three feet below finish grade.

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## **5. Landscape Construction**

Assemble or placing pre-manufactured trellis work, play equipment, benches, or picnic tables.

Constructing rock walls to a maximum height of four feet.

Land clearing and/or grubbing to a maximum depth of six inches below finished grade.

Spreading top soil to maximum depth of six inches below finish grade.

Trenching to a maximum depth of three feet below finish grade.

Installing French drains of other subsurface water collection systems to a maximum depth of three feet below finish grade.

Hauling top soil, plants, or other landscaping materials in trucks with only one rear axle.

## **6. Project Recordkeeping**

Recording timesheets, documenting and tracking change orders, material tickets and packing slips.

**Total Hours: 4000**

**Note:** All of the forgoing work process herein noted is understood to mean as it pertains to the trade herein involved in these standards.

The occupational training program is intended to train and provide work within the Washington State Prevailing Wage Landscaping Construction Scope of Work (WAC 296-127-01346), as clarified by Washington State Department of Labor and Industries Landscape Construction Prevailing Wage Policy Memorandum dated May 19, 2010. The WAC and a copy of the Memorandum are attached to these Standards as Exhibit A.

In accordance with this ~~dame~~ same WAC and Policy, power equipment used in conjunction with this apprenticeship program shall not exceed ninety horsepower.

## **B. Laborer**

**Core Competencies: .....4000 hours**

### **1. Site/Project Preparation and Maintenance**

Analyze and read blueprint. Adjust design issues.

Land Clearing and/or grubbing.

Grading and compaction.

Install, maintain erosion control systems.

Layout and staking protocols.

Site preparation, clean up, and security.

### **2. Tools, Equipment and Materials**

Tools equipment, and material recognition and preparation.

Hand electric, gas, pneumatic, and power tool/equipment use and maintenance.

Tool, equipment, and material storage and security.

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### 3. Safety

Confined space safety.

Fire Watch.

Traffic control/flagging, signing, and traffic safety awareness.

Hazard material recognition.

Trenching and site excavation.

Areas of Concentration: .....4000 hours

### 4. Environmental Remediation

Asbestos Abatement

Hazardous Waste Abatement

Lead Abatement

Petro-Chemical Abatement

Radiation Remediation

Weatherization

### 5. Building Construction

Concrete (mixing, placement, vibration of concrete, removal)

Erect scaffolding, shoring and braces.

Concrete sawing, cutting (to exclude concrete finishing processes), and coring.

Material handling, stocking, cleaning, and storage.

Dewatering systems installation by hand, hand carried pump installation, operation and maintenance.

### 6. Heavy/Highway Construction

Asphalt.

Grade Checking.

Pipe Laying, trenching.

Install and maintain erosion control systems.

Dewatering systems installation by hand, hand carried pump installation, operation and maintenance.

### 7. Demolition/Deconstruction

Debris handling.

Concrete sawing, cutting, breaching and breaking.

Aerial lift operation.

Demolition debris handling and management (recycling, reused, disposal).

### 8. Landscaping

Spreading, grading and compaction with hand tools or walk behind equipment.

Falling, trimming, and pruning hedges, trees and shrubs.

Installing servicing or repairing underground lawn or landscape utilities or fixtures.

Assemble or place pre-manufactured playground and landscape equipment.

Constructing rock retaining walls.

Prepping for installing French drains or other subsurface water collection systems.



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## 9. Pipeline

Trenching and excavation by hand.

Grade setting/checking (Excluding the pipe, hanger systems, and ditch grade).

Clearing and maintaining the right of way (ROW) by hand, ROW mediation.

Build and dismantle fences.

Install and maintain erosion control systems.

Locating utilities.

Load, unload and place skids by hand (Excluding the fabrication area).

Hooking and unhooking of pipe, and work in connection with the distribution of pipe.

Pipe preparation, sandblasting, coating, and cleanup (Not done in connection with the preparation or completion of the welding process).

"Dressing the Pig".

## 10. Masonry

Mason tending.

Plaster tending.

Refractory tending.

Tarpping and cleanup

Pump operation, maintenance and cleanup.

Erect scaffolding, shoring and braces.

Forklift operation and safety.

Total 8000 hours

## IX. RELATED/SUPPLEMENTAL INSTRUCTION:

A. The methods of related/supplemental training must be indicated below (check those that apply):

☒ Sponsor approved training seminars (specify) Lower Columbia Contractors Association

☒ Sponsor approved online or distance learning courses (specify) Simplot and ACF West

☒ Sponsor Provided (lab/classroom)

C. Additional Information:

None

1. Computer with video/audio capabilities and hotspot available for check out to all apprentices.

## X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

A. Administrative Procedures:

3. Sponsor Procedures:

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~~1.a.~~ Should it become necessary to lay off an apprentice, due to economic reasons, he/she shall be offered reemployment before a new apprentice may be hired.

**b. Travel Policies for Apprentices: Location of RSI Training – The Apprenticeship Program will make every effort to offer its training programs around the entire State to better accommodate the needs of its apprentices. Due to the heavy hands-on lab requirements some training will be held at the Kelso facilities. If an apprentice is required to travel more than fifty (50) miles for training or disciplinary procedures, they will be accommodated as follows:**

1. Lodging – will be arranged and paid for by the program at a local hotel. Apprentices may be required to share rooms, maximum of 2 apprentices per room. Occupants must be of same gender.
  2. Food –Those apprentices that are required to travel will be given a stipend of \$35.00 a day for meals.
  3. Mileage – mileage will be reimbursed at the current Federal allowed rate.
- ~~2. Apprentices must possess a valid driver license and maintain valid automobile insurance at all times during their apprenticeship. Failure to maintain such requirements could result in disciplinary action, suspension, cancellation of the apprenticeship agreement.~~
- ~~3. Failure to maintain employment with C & R Tractor & Landscape, Inc., will result in automatic cancellation from apprenticeship agreement.~~

### B. Disciplinary Procedures

#### 3. Sponsor Disciplinary Procedures:

~~None~~

- a. Apprentice must possess a valid driver's license and maintain valid automobile insurance at all times during their apprenticeship; reliable transportation, which includes automobiles or sharing a ride, is required to get to all job sites they're dispatched to at their scheduled time. Failure to maintain such requirements could result in disciplinary action, suspension, or cancellation of the apprenticeship agreement. Evidence of valid driver's license and insurance must be submitted to the Committee upon request.
- b. Failure to maintain employment with C & R Tractor and Landscaping, Inc., will result in cancellation from the apprenticeship agreement.
- c. Apprentices must be ready to work on time with their PPE equipment provided by the sponsor. PPE equipment that is provided includes head, eye, ear, hazardous mask as necessary, and tools necessary. Apprentice must provide their own work boots.
- d. After one no call, no show apprentices will be required to appear before the Committee for disciplinary action that may result in cancellation from the apprenticeship program.

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## **XI. SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE**

E. Committee governance (if applicable): (see WAC 296-05-009)

a. Program type administered by the committee: **Individual Non-Joint**

Department of Labor & Industries  
Apprenticeship Section  
PO Box 44530  
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*Teri Gardner 9-9-2020*

Received 09/09/2020  
By S. Patterson

## Journey Level Wage Rate

From which apprentices' wages rates are computed

TO: Washington State Apprenticeship & Training Council

From C&R Tractor & Landscaping, Inc. Apprenticeship Committee, Program #1930  
(NAME OF STANDARDS)

Occupations	County(s)	Journey Level Wage Rate	Effective Date:
Laborer	All Washington counties	27.00	8/13/2020

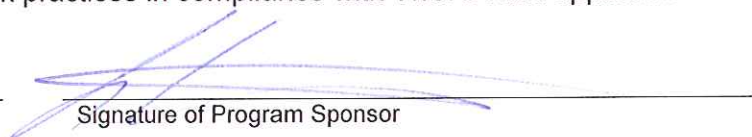
## Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor C & R TRACTOR AND LANDSCAPING, INC.		<i>Teri Gardner 9-9-2020</i>
Skilled Occupational Objective LABORER		
Term/OJT Hours 8000 HOURS	Total RSI Hours 576 HOURS	
Training Provider Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College.		

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprenticeship and assures that:

1. The RSI content and delivery method is and remains reasonably consistent with the latest occupational practices, improvements, and technical advances.
2. The RSI is coordinated with the on-the-job work experience.
3. The RSI is provided in safe and healthful work practices in compliance with WISHA and applicable federal and state regulations.

C & R Tractor and Landscaping Inc  
Printed Name of Program Sponsor

  
Signature of Program Sponsor

By the signature placed below, the **training provider** assures that:

1. The RSI will be conducted by instructors who meet the qualifications of "competent instructor" as described in WAC 296-05-003.
  - a. Has demonstrated a satisfactory employment performance in his/her occupation for a minimum of three years beyond the customary learning period for that occupation; and
  - b. Meets the State Board for Community and Technical Colleges requirements for a professional technical instructor (see WAC 131-16-080 through -094), or be a subject matter expert, which is an individual, such as a journey worker, who is recognized within the industry as having expertise in a specific occupation; and
  - c. Has training in teaching techniques and adult learning styles, which may occur before or within one year after the apprenticeship instructor has started to provide the related technical instruction.
2. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, such instruction is clearly defined.

C & R Tractor and Landscaping, Inc.  
Print Name Training Provider

  
Signature of Training Provider

President  
Title of Training Provider

Construction Company  
Organization of Training Provider

*If there are additional training providers, please provide information and signatures on the next page.*

**Additional Resources:** [Apprenticeship Related Supplemental Instruction \(RSI\) Plan Review Glossary of Term \(F100-519-000\)](#) and [Apprenticeship Related Supplemental Instruction \(RSI\) Plan Review Criteria \(F100-521-000\)](#).

**SBCTC Program Administrator** has reviewed RSI plan and recommendations of the Trade Committee.

Click or tap here to enter text.

Print Name of SBCTC Program Administrator

Signature of SBCTC Program Administrator

Date

☐ SBCTC recommends approval

☐ SBCTC recommends return to sponsor



## Additional Training Providers (if necessary)

C&R Tractor and Landscaping

Print Name Training Provider

President

Title of Training Provider

Heaton Nursery

Print Name Training Provider

Manager

Title of Training Provider

Lower Columbia College

Print Name Training Provider

Executive Director

Title of Training Provider

Click or tap here to enter text.

Print Name Training Provider

Click or tap here to enter text.

Title of Training Provider

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Print Name Training Provider

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Title of Training Provider

Click or tap here to enter text.

Print Name Training Provider

Click or tap here to enter text.

Title of Training Provider

Signature of Training Provider

Construction Company

Organization of Training Provider

Signature of Training Provider

Nursery

Organization of Training Provider

Signature of Training Provider

College

Organization of Training Provider

Signature of Training Provider

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Organization of Training Provider

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Signature of Training Provider

Click or tap here to enter text.

Organization of Training Provider

Program Sponsor: C & R TRACTOR AND LANDSCAPING, INC.	Skilled Occupational Objective: LABORER
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**Note:** The description of each element must be in sufficient detail to provide adequate information for review by the SBCTC and Review Committee. To add more elements, click on the plus sign that appears below the "Description of element/course" field.

**Describe minimum hours of study per year in terms of (check one):**

- ☐ 12-month period from date of registration.  
☐ Defined 12-month school year.  
☒ 2,000 hours of on-the-job training.

Element/Course: SITE/PROJECT PREPERATION & MAINTENANCE	Planned Hours: 50
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Instructor(s) contracted by sponsor	
Description of element/course: <ul style="list-style-type: none"> <li>Analyze and read blueprint. Adjust design issues.</li> <li>Land clearing and/or grubbing.</li> <li>Grading and compaction</li> <li>Install, maintain erosion control systems.</li> <li>Layout and staking protocols.</li> <li>Site preparation, clean-up and security.</li> </ul> Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 1)	

Element/Course: TOOLS, EQUIPMENT AND MATERIALS	Planned Hours: 34
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Instructor(s) contracted by sponsor	
Description of element/course: <ul style="list-style-type: none"> <li>Describes the hazards associated with handling materials and provides techniques to avoid injury and property damage, while introducing common material handling equipment procedures.</li> <li>Hand electric, gas, pneumatic and power tool/equipment use and maintenance.</li> <li>Tool, equipment and material storage and security.</li> </ul> Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 1)	

Element/Course: SAFETY	Planned Hours: 60
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Instructor(s) contracted by sponsor	
Description of element/course: <ul style="list-style-type: none"> <li>Introduction to signs, signals and barricades found on various job sites, and covers highway work-zone safety requirements.</li> <li>Fire watch safety.</li> <li>Traffic control/flagging, signing and traffic safety awareness.</li> <li>Flagging Certification by Certified Instructor.</li> <li>Recognition and safety management of hazardous materials.</li> <li>Trenching and site excavation.</li> <li>CPR Certification by Certified Instructor.</li> </ul>	

Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 1)

Element/Course: ENVIRONMENTAL REMEDIATION

Planned Hours: 48

Mode of Instruction (check all that apply)

☒ Classroom ☒ Lab ☒ Online ☐ Self-Study

Provided by: Instructor(s) contracted by sponsor

Description of element/course:

OSHA awareness training provided in each of the below topics:

- Asbestos abatement.
- Hazardous waste abatement.
- Lead abatement.
- Petro-chemical abatement.
- Radiation remediation.
- Weatherization.

Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 2)

Element/Course: BUILDING CONSTRUCTION

Planned Hours: 48

Mode of Instruction (check all that apply)

☒ Classroom ☒ Lab ☒ Online ☐ Self-Study

Provided by: Instructor(s) contracted by sponsor

Description of element/course:

- Concrete (mixing, placement, vibration of concrete, removal).
- Safe operations of erecting scaffolding, shoring and braces.
- Concrete sawing, cutting (to exclude concrete finishing processes), and coring.
- Material handling, stocking, cleaning and storage.
- Dewater systems installation by hand, hand carried pump installation, operation and maintenance as it pertains to Building Construction.

Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 2)

Element/Course: HEAVY/HIGHWAY CONSTRUCTION

Planned Hours: 48

Mode of Instruction (check all that apply)

☒ Classroom ☒ Lab ☒ Online ☐ Self-Study

Provided by: Instructor(s) contracted by sponsor

Description of element/course:

- Asphalt
- Grade checking.
- Secure pipe laying and trenching.
- Install and maintain erosion control systems.
- Dewatering systems installation by hand, hand carried pump installation, operation and maintenance as it pertains to Heavy/Highway Construction.

Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 2)



Element/Course: DEMOLITION/DECONSTRUCTION	Planned Hours: 44
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Instructor(s) contracted by sponsor	
Description of element/course: <ul style="list-style-type: none"> <li>• Debris handling.</li> <li>• Concrete sawing, cutting, breaching and breaking.</li> <li>• Aerial lift operation with caution.</li> <li>• Demolition debris handling and management (recycling, reused, disposal).</li> </ul> Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 3)	

Element/Course: LANDSCAPING	Planned Hours: 100
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Instructor(s) contracted by sponsor	
Description of element/course: <ul style="list-style-type: none"> <li>• Construction or maintaining lawns, yards, gardens or other landscaped surfaces.</li> <li>• Mixing and spreading mulches, ground covers, soil amendments, decorative bark or decorative rock.</li> <li>• Safely instruct applying chemicals or fertilizers.</li> <li>• Layout, planting and staking.</li> <li>• Spreading, grading and compaction with hand tools or walk behind equipment.</li> <li>• Falling, trimming and pruning hedges, trees and shrubs.</li> <li>• Installing, servicing or repairing above ground and underground lawn or landscape sprinkler systems.</li> <li>• Installing, servicing or repairing underground lawn or landscape to a maximum depth of three feet below finish grade.</li> <li>• Safe assembly or place of pre-manufactured playground and landscape equipment.</li> <li>• Constructing rock walls to a maximum height of four feet.</li> <li>• Installing French drains or other subsurface water collection systems.</li> </ul> Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 3)	

Element/Course: PIPELINE	Planned Hours: 72
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Online <input type="checkbox"/> Self-Study	
Provided by: Instructor(s) contracted by sponsor	
Description of element/course: <ul style="list-style-type: none"> <li>• Trenching and excavation by hand.</li> <li>• Grade setting/checking (excluding the pipe, hanger systems and ditch grade).</li> <li>• Clearing and maintaining the right of way (ROW) by hand, ROW mediation.'</li> <li>• Build and dismantle fences.</li> <li>• Install and maintain erosion control systems.</li> <li>• How to safely locate utilities.</li> <li>• Load, unload and place skids by hand (excluding the fabrication area).</li> <li>• Hooking and unhooking of pipe and work in connection with the distribution of pipe</li> <li>• Pipe preparation, sandblasting, coating and clean-up. (Not done in connection with the preparation or completion of the welding process).</li> <li>• "Dressing the Pig".</li> </ul>	

Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 4)

Element/Course: MASONRY

Planned Hours: 72

Mode of Instruction (check all that apply)

☒ Classroom ☒ Lab ☒ Online ☐ Self-Study

Provided by: Instructor(s) contracted by sponsor

Description of element/course:

- Mason tending.
- Plaster tending.
- Refractory tending.
- Tarping and clean-up.
- Properly and safely erect scaffolding, shoring and braces.
- Forklift operation and safety.

Training will be provided by C & R Tractor and Landscaping, Inc., Heaton Nursery, and/or Lower Columbia College. (Year 4)