Program Guide

Supporting Employers & Partners

TECHNOLOGY ASSOCIATION OF OREGON

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Why Code Oregon?

• There is a strong demand for tech talent and over the next 6-8 years demand is expected to increase by 32%.

• Employer demand for tech talent will only continue to grow. The number one concern employers have is the availability of trained talent to fill hundreds of open positions. By 2020 there will be one million more computer programming jobs in the U.S than there are qualified candidates.

• It pays well to code. Jobs in computing are growing at twice the national average and pay 75% more than the national median annual salary. The U.S Bureau of Labor Statistics reported that the median annual wage for computer programmers was $74,280 in 2012. Average Tech starting salaries in Oregon are about $42,000 and go up from there.

What is Code Oregon?

• Code Oregon is an innovative workforce development program with the goal of teaching 10,000 Oregon residents how to code and prepare them to be competitive for rewarding careers in software development and technology.

• This Public/Private Partnership between Worksystems, the local Workforce Investment Board, and Treehouse, one of the nation's leading online interactive education platforms, is working to bridge the gap and align resources to meet employer and labor market needs.

• Online coding classes are offered through Treehouse and graduates are connected to local technology jobs through WorkSource with support from Worksystems Inc, and the Technology Association of Oregon.

About this Guide:

• This guide is designed to provide an overview of the Code Oregon program and provide information about the program to WorkSource staff and Code Oregon participants.

• The guide includes definitions of the building blocks that make up the Treehouse learning model.

• The guide also provides information about possible careers, and other available programs around the state to provide access to Tech careers.

Table of Contents

WorkSource Registration & Code Oregon

What is WorkSource and how is it part of Code Oregon?
• WorkSource is the public workforce investment system for the State of Oregon.
• Code Oregon is made possible by a partnership between WorkSource and Treehouse.

Why do I need to register with WorkSource as part of Code Oregon?
• WorkSource is sponsoring Code Oregon, registration is required for the continued access to a sponsored account.

When do I need to complete my registration with WorkSource?
• After you have earned 3 badges, you have 30 days of access to Code Oregon. In order to continue your access beyond the trial period you must complete your registration at a local WorkSource Center.
• You must stay ACTIVE in Code Oregon by continuing to earn badges or through Track progression. If you do not stay active you will lose your sponsored account.
• Total eligibility for a sponsored account is up to 12 months.
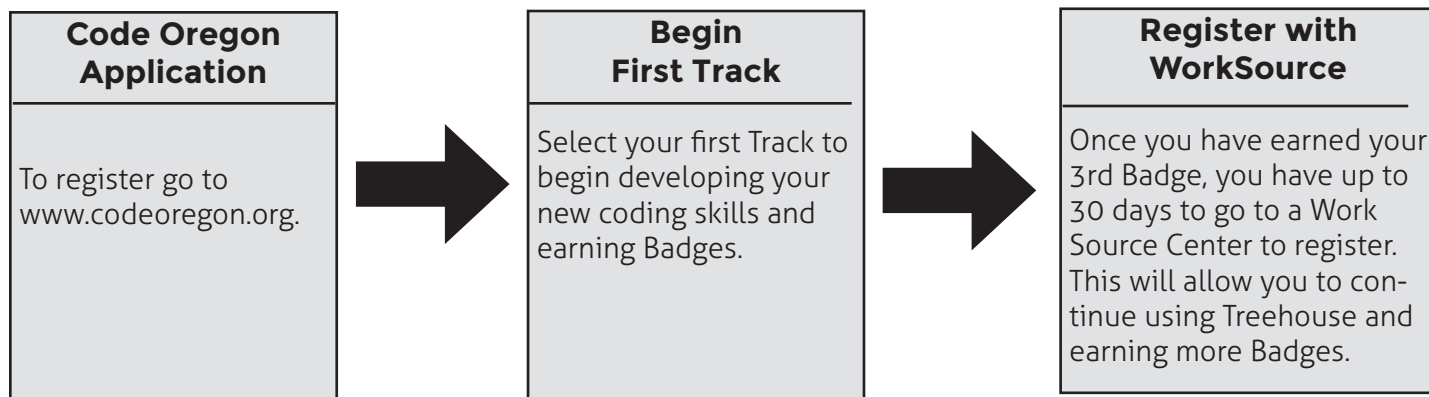
How do I complete my registration with WorkSource?
• You can start your registration by either going online or by going to your local WorkSource Center.
• To complete the process you need to go to your local center and let the staff know you are there to complete Registration and/or Welcome.
• Bring your photo ID with you verifying you are 18 years or older and an Oregon resident.
• Centers may have walk-in hours, some may require an appointment - Please check with your local center to save time.

To find a local WorkSource Center and learn more about available services:
http://www.worksourceoregon.org/home/worksourcecenters

Once WorkSource registration is complete participants must enter their JobSeeker ID to their account at:
http://teamtreehouse.com/account/code-oregon

Code Oregon Application		**Begin First Track**		**Register with WorkSource**
To register go to www.codeoregon.org.	→	Select your first Track to begin developing your new coding skills and earning Badges.	→	Once you have earned your 3rd Badge, you have up to 30 days to go to a Work Source Center to register. This will allow you to continue using Treehouse and earning more Badges.

Code Oregon: Registration Process

Getting Started

1. Sign up at www.codeoregon.org.

2. Complete iMatchSkills profile.

3. Meet with a Welcome Team member at a local WorkSource Oregon to complete the Welcome Process. Bring photo ID to validate age and residency. *Check with local center for hours of appointments available.*

4. Applicant gets Job Seeker ID through I-Trac Services.
   Partnering Agency: Code Oregon [staff: leave End Date blank]

5. From "www.codeoregon.org" verified applicants will be directed to set-up a Code Oregon sponsored Treehouse account at TeamTreehouse.com. Job Seeker must enter her/his Job Seeker ID on TeamTreehouse.com under the account settings. (See Image below.)

Definitions:
Points, Stages, Courses, & Tracks
Understand the building blocks
of how to learn in Treehouse

What is a TRACK?

Tracks are guided curriculum to help you learn new skills or train for a specific role. Tracks provide a foundation for entry level careers and take between 40 - 65 hours to complete.

A TRACK is a complete Pathway. Tracks are made of COURSES.

What is a COURSE?

Courses are stand-alone learning opportunities within Treehouse and can take around 6-8 hours to complete. Courses may have overlap and exist within multiple TRACKS.

COURSES are made up of STAGES (completion of these earns Badges).

What is a STAGE?

Stages (badges) are like nano-courses. Badges indicate completion of smaller learning components.

STAGES are comprised of an instructional video, a code challenge, and a quiz, after which the learner earns a BADGE.

What are POINTS?

Points measure learning and are earned through completion of Badges, Courses, and Tracks, or through participation in the FORUM, and engaging with the Treehouse online learning platforms.

Earning POINTS

Activity	Pts	Activity	Pts
Upvoted Forum Post	1	Completed Stage	30
Upvoted Best Answer	12	Completed Course	60
Completed Quiz	6	Completed Track	150
Complt. Code Challenge	12		

Tracks & Courses

All Tracks are designed to prepare students to enter Junior Developer positions using skills outlined in the Courses. There are many Courses that overlap and apply towards multiple Tracks as well as support students learning in multiple Tracks through the cross-over of skills.

To stay current, Treehouse is constantly adding and updating content based on available material and industry needs.

Below are the Tracks currently available in Treehouse for Code Oregon students.

Tracks within Tree-house	Front End Web Development	Web Design	Rails Development	PHP Development	Android Development	iOS Development	WordPress Development	Starting a Business	Python Basics
Courses within Track	12	16	12	11	5	7	7	6	6
Badges within Track	69	83	71	79	30	49	43	39	34

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* For more detailed information go to www.teamtreehouse.com/tracks

Tracks and Courses

These Track overviews are intended to help people understand which courses are part of the Tracks and how many Badges/Stages make up each of the courses.

Front-End Development

Courses in Track	Badges in Course
How to Make a Website	10
HTML	7
CSS	13
Sass Basics	4
Intro to Programming	4
JavaScript Foundations	6
Console Foundations	5
Git Basics	6
jQuery Basics	6
AJAX Basics	4
Accessibility	3
Website Optimization	1
Total: 12	**69**

Job Information:
Potential jobs that align with this track include: Jr. Web Developer, Jr. Front-End Developer.

Web Design

Courses in Track	Badges in Course
How to Make a Website	10
HTML	7
CSS (Foundations)	13
Sass Basics	4
CSS Layout Techniques	5
HTML Forms	3
HTML Tables	2
Aesthetic Foundations	3
Design Foundations	4
Illustrator Foundations	6
Photoshop Foundations	7
Logo Design Basics	2
Brand Identity Basics	4
UX Basics	5
SEO Basics	4
Compass Basics	4
Total: 16	**83**

Job Information:
Potential jobs that align with this track include: Jr. Web Developer, Jr. Front-End Developer.

These Track overviews are intended to help people understand which courses are part of the Tracks and how many Badges/Stages make up each of the courses.

Rails Development

Courses in Track	Badges in Course
How to Make a Website	10
Intro to Programming	4
JavaScript Foundations	6
Console Foundations	5
Git Basics	6
Database Foundations	8
Ruby Basics	4
Installing a Ruby Development Environment	1
Ruby Foundations	14
Build a "To-Do" List Application with Rails 4	4
Active Record Basics	6
User Authentication with Rails	3
Total: 12	71

PHP Development

Courses in Track	Badges in Course
How to Make a Website	10
Intro to Programming	4
JavaScript Foundations	6
Console Foundations	5
Database Foundations	8
HTML	7
CSS (Foundations)	13
jQuery Basics	6
Build a Simple PHP	7
Enhancing a Simple PHP Application	8
Using PHP with MySQL	5
Total: 11	79

Job Information:
Potential jobs that align with this track include: Jr. Developer including PHP Developer positions.

Job Information:
Potential jobs that align with this track include: Jr. Developer - Ruby on Rails, and positions using Ruby on Rails.

Tracks and Courses

These Track overviews are intended to help people understand which courses are part of the Tracks and how many Badges/Stages make up each of the courses.

iOS Development

Courses in Track	Badges in Course
Build a Simple iPhone/Android App	7
Build a Blog Reader iPhone/Android App	7
Build a self-destructing message for iPhone/Android	8
Implementing Designs for iPhone/Android	8
Objective C Basics	7
Build a Diary App using Core Data	6
Build a Photo Browser for iPhone	6
Total: 7	**49**

Job Information:
Potential jobs that align with this track include: Jr. Developer -- App Development, iOS Mobile App Developer, opportunities in developing phone application in iOS/Apple Products and iPhones.

Android Development

Courses in Track	Badges in Course
Build a Simple iPhone/Android App	6
Build a Blog Reader iPhone/Android App	5
Build a self-destructing message for iPhone/Android	8
Implementing Designs for iPhone/Android	8
Android Tools	3
Total: 5	**30**

Job Information:
Potential jobs that align with this track include: Jr. Developer -- App Development, Android Mobile App Developer, opportunities in developing phone applications for Android/Google enabled phones.

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These Track overviews are intended to help people understand which courses are part of the Tracks and how many Badges/Stages make up each of the courses.

WordPress Development

Courses in Track	Badges in Course
How to Make a Website	10
jQuery Basics	6
Build a Simple PHP application	7
How to make a website with WordPress	6
Local WordPress Developme	1
How to build a WordPress plugin	5
How to build a WordPress Theme	8
Total: 7	**43**

Job Information:
Potential jobs that align with this track include: WordPress developer.

Starting a Business

Courses in Track	Badges in Course
How to Make a Website	10
Build a Simple PHP application	7
Intro to Programming	4
How to Start a Business	7
How to Market your Business	6
How to Build your Company	5
Total: 6	**39**

Job Information:
This track is designed for people who want to work for themselves, or supplement their income through marketing products, webpages, or applications they have developed.

These Track overviews are intended to help people understand which courses are part of the Tracks and how many Badges/Stages make up each of the courses.

Python Basics

Courses in Track	Badges in Course
Say Hello to Python	6
Basic I/O (ins and outs)	8
Things that count	5
Shopping List	5
Putting the Fun in Function	5
Pick a Number! Any Number!	5
Total: 6	**34**

Job Information:
Python is an excellent language to start learning computer coding and allows the learner to understand basics which will support learning other technical computer languges. Positions available would be Jr. Developer Python.

Pathway Learning

Courses in Code Oregon are designed to build on each other and matrix across many Tracks. This allows the learner to apply skills learned through related tracks to other Tracks within Treehouse.

For example, as part of the Web Development Track, you are also completing courses which can apply towards completion of other Tracks, building on overall knowledge and competitive skills.

Treehouse offers an accessible online 'game-like' method to learn coding skills. Code Oregon is intended to provide access to allow Oregonians, especially those groups underrepresented in the industry to build competitive skills for entry-level Tech positions. It also allows users to check their interest and aptitude and experience an easy way to access a basic code training.

For detailed course descriptions go to www.teamtreehouse.com/features/library

All Treehouse Tracks are designed to support ENTRY Level Employment in the Tech industry. Below is a chart of Job Titles, and Wage Range opportunities utilizing these skills.

For open positions and employer information in the Portland Metro area go to: www.portlandtech.org.

Job Titles	SOC Codes (SOC Name)	Wage Range* (O*Net)
Application Developer	15113100 (Computer Programmers)	$37,000—$94,000
Mobile Application Developer	15113400 (Web Developer) 15113200 (Software Developer)	$63,000—$150,000
Ruby on Rails Developer	15113400 (Web Developer)	$40,000—$123,000
PHP Developer	15113400 (Web Developer)	$40,000—$123,000

* For local information please check online with OLMIS, IMatchSkills or other local listings.

* OLMIS is the Oregon Labor Market Information System - available at www.qualityinfo.org

* IMatchSkills is the Oregon Employment Department Labor Exchange system - available at: https://empportal.emp.state.or.us/mprod_imscod_dad/!pkg_startup.proc_new_home

Educational Pathways
Beyond Code Oregon

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Code Oregon is intended to provide access to allow Oregonians, especially those groups underrepresented in the industry to build competitive skills for entry-level Tech positions. It also allows users to check their interest and aptitude and experience an easy way to access a basic code training. Below is a sampling of additional trainings available across the state which also support pathways into Tech careers.

Workforce Board (Region)	Training Institution(s)	Location(s)	Programs of Study
Job Council	Rogue Community College; Southern Oregon University	Grants Pass; Ashland	Computer and Information Sciences; Math and Computer Science, Business, Management, Marketing and Related Support Services
Job Growers	Chemeketa Community College, Western Oregon University; George Fox University; Willamette University; Linfield College	Salem; McMinnville; Newberg; Monmouth	Computer and Information Sciences; Math and Computer Science, Business, Management, Marketing and Related Support Services; Management Information Systems; Computer Science; Web Page, Digital Multimedia and Information Resources Design; Information Science
TOCOWA	Treasure Valley Community College; Central Oregon Community College; Eastern Oregon Community College; Oregon Institute of Technology; Blue Mountain Community College; Klamath Community College; Southwestern Oregon Community College; Umpqua Community College	Pendleton; Bend; La Grande; Ontario; Klamath Falls; Coos Bay	Computer and Information Sciences; Information Technology; Computer Programming; Computer Systems Networking; Computer Software Technology/Technician; Marketing Management; Retailing and Retail Operations; Management Information Systems; Computer Support Specialist
Linn-Benton	Linn-Benton Community College; Oregon State University	Albany; Corvallis	Computer and Information Sciences; Computer Programming; Retail & Operations Management
Lane	University of Oregon; Lane Community College; NW Christian University;	Eugene	Computer and Information Sciences; Computer Programming; Retail & Operations Management; System Networking, and LAN/WAN Manager; Math and Computer Science; Computer Programmer
WICCO	Pioneer Pacific College; Clackamas Community College; Oregon Institute of Technology	Oregon City; Wilsonville	Information Technology; Computer Programming (specific Languages); Web Page/Digital Multimedia; Computer Systems Networking; Computer Systems Networking and Telecommunications; Operations Management and Supervision
Worksystems	Everest College; Mt. Hood Community College; ITT Technical Institute; Portland Community College; DeVry; Portland State University; Pacific University; University of Portland; The Art Institute of Portland; Lewis and Clark College; Oregon Health & Science University; Tech Academy; Epicodus; Portland Code School; PDX Code Guild	Portland; Gresham; Beaverton; Forest Grove; Hillsboro	Computer and Information Sciences; Math and Computer Science, Business, Management, Marketing and Related Support Services; Computer Science; Computer Systems Analyst; Web Page, Digital/Multimedia and Information Resources Design; Computer Graphics; Computer Systems Networking and Telecommunications; Computer Engineering; Computer Software Engineering; Bioinformatics; Network System Administration; Computer and Information Systems Security; Operations Management and Supervision

CODE
OREGON

Access FREE online training and apply for a job in the Tech Industry
No degree or experience required!

800
Number of jobs in tech currently available, with 10,000 new jobs anticipated by 2020.

32%
Percent growth of tech industry in Oregon anticipated by 2020.

$45,000–$70,000
The average salary for a fun & creative tech job with no degree requirements.

Code Oregon is a free on-line training program, sponsored by **Worksystems** & **WorkSource Oregon.** Utilizing **Treehouse**, one of the nation's leading online, interactive, education platforms, that helps you learn the skills to be a competitive job candidate.

HOW IT WORKS
Code Oregon is open to Oregon residents ages 18 and older. It can help you build marketable skills and you can schedule the courses to fit your life. All training is online.

WORKSOURCE CUSTOMERS
Get support learning new skills and get access to pathways into high-wage, high-demand careers. WorkSource can help you get access to support your online learning through computer lab access or additional training resources.

CAREER OPPORTUNITIES
As you progress through your Code Oregon Tracks, WorkSource Oregon is available to help with resumes, interviewing, and job search support.

Apply at CodeOregon.org today!

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Questions?

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