

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

FROM: Apprenti - 1982

TO:



Washington State Apprenticeship & Training Council

Request for Revision of Standards

Please update our Standard Additions shall be under Deletions shall be struck See attached.			
Form must be signed	l by Committee Chair	and Casuatamy ay Duague	wala Authorizad Circar
Chair	Date	and Secretary or Progra ☐ Secretary	Date Signer
	4/22/2025		
Print Name: Andrea Anderson		Print Name:	
Signature: Andre Andre	-	Signature:	
Approved By: Washington State Appre	nticeship & Training Co	ouncil	
Signature of Secretary of the	WSATC:		
Date:			
			·

Attach additional sheets if necessary

Occupational Objective(s): SOC# Term [WAC 206 05 015]			
CLOUD OPERATIONS SPECIALIST-1 CLOUD OPERATIONS SPECIALIST 2 SOFTWARE DEVELOPER-1		15-1232.00 15-1232.00 15-1252.00	[WAC 296-05-015] 2000 HOURS 2000 HOURS 2000 HOURS
MINIMUM	QUALIFICATIONS:		
Other:	Candidates who are not United States cities through the duration of the term of appreto work in the United States for an employin the future. This apprenticeship is not enough to provide sponsorship for applicants or	enticeship. <u>Appl</u> yer without requ ligible for spons	icants must be authorized uiring sponsorship now or
<u>APPRENTI</u>	CE WAGES AND WAGE PROGRESSION	[<u>:</u>	
CRM/C IT Busi Analyst	A. Cloud Operations Specialist 1, Cloud Operations Specialist 2, CRM Administrator, CRM/CMS Developer, Cybersecurity Analyst, Data Analyst, Developer Operations Specialist, IT Business Analyst, IT Support Professional, Network Security Administrator, Software Analyst, Software Developer 1, Systems Administrator, Technical Sales Specialist, and Web Developer:		
WORK PRO	OCESSES: se renumber section to number/letter/numb	er where appro	<u>priatel</u>
• [Plea	se add a period (.) to the end of every work	process in section	on VIII]
A. Network	Security Administrator:	<u>Approxi</u> i	mate Hours
6. DMVPN			
 6. WAN Technologies			
• [Please	delete competency schedule for VIII.B. and	l replace with th	ne following
B. Software	e Developer:	Approxi	mate Hours

II.

VII.

VIII.

Арр	renti	- 1982	
		Identify and capture stakeholder requirements using customer interviews and	
		Surveys. Ruild multiple use cases to describe each action that a user will take in the	
b. Build multiple use cases to describe each action that a user will take new system.			
	•		
	<u>c.</u> d.	Understand and contribute to requirement specification documents.	
	<u>u.</u>	Follow best practices around security, performance, and privacy	
		optimizations.	
	<u>e.</u>	Coordinate with beta test community, marketing, and other stakeholders.	
	<u>f.</u>	Interpret functional requirements.	
	<u>g.</u>	Participate in team meetings.	
	<u>h.</u>	Estimate effort and complexity for assignments.	
	<u>i.</u>	Prioritize assigned work.	
	<u>į </u>	Participate in code quality review.	
	k.	Write acceptance criteria.	
2.	Soft	ware Design	
<u></u>		Work with stakeholders to define and delegate requirements.	
	<u>a.</u>		
	<u>b.</u>	Specify and scope hardware, software and project requirements.	
	<u>c.</u>	Block code using diagrams, mockups, or wireframes.	
	<u>d.</u>	Identify and mitigate security threats and vulnerabilities that may arise from	
		design decisions and any legacy code that must connect to project.	
	<u>e.</u>	Identify logic changes.	
	a.	Identify user interface changes.	
	b.	Identify process changes.	
	c.	Identify data changes.	
	d.	Track assigned work responsibilities across team members.	
2	Dov	elopment and Implementation600	
3.			
	<u>a.</u>	Develop and write software code.	
	<u>b.</u>	Connect to APIs and external libraries for relevant functions (e.g., data	
		storage, ETL operations, image processing, payment systems).	
	<u>c.</u>	Prepare and connect to data services required to complete application	
	_	objectives.	
	<u>d.</u>	Build and process learning sets for machine learning or adaptive	
		algorithms.	
	<u>e.</u>	Perform code reviews, unit testing, and bug fixes throughout the	
	_	development process.	
	<u>f.</u>	Complete programming tasks.	
	<u>g.</u>	Configure programming environment.	
	<u>h.</u>	Maintain existing feature(s).	
	<u>i.</u>	Create new feature(s) as directed by senior team members.	
	<u>i. </u>	Write efficient queries to produce desired results.	
	k.	Implement computational algorithms or engage functional programming	

Implement design patterns.

techniques as appropriate.

- n. Create necessary data models.
- - a. Work with development team to create test plans.

- b. Implement test cases.
- c. Analyze results and implement solutions.
- d. Perform revisions, repair, or expansion of existing programs to increase operating efficiency or adapt to new requirements.
- - a. Perform training for end users.
 - b. Evaluate and fix bugs.
 - c. Prepare for and assist language localization teams, QA, and preparation for distribution channels.
 - d. Completion documentation.
 - e. Maintain version control and code repositories.
 - f. Resolve merge conflicts.
 - g. Package and deploy applications (publish to server).

Total Hours: 2000

Competency Schedule:

Competency Step	Required Competency for Progression	
1. Pre-OJT RSI to OJT	Completion of RSI with a grade of 75% or greater	
Step 1 to Step 2	Apprentice must meet or exceed 60% of	
	competencies listed in the work processes.	
Graduation	Apprentices must meet or exceed 85% of	
	competencies listed in the work processes.	

• [Please delete section VIII.D. in its entirety and replace with the following]

D. Systems Administrator:

Approximate Hours

- 1. <u>Server Administrator......500</u>
- a. Deploy and manage Linux distributions/Windows Server.
 - b. Update and monitor system components.
 - c. Storage solution management.
 - d. Manage file and print services.
 - e. Security encryption and audit configuration.
 - f. Monitor and configure network services.
 - g. Create availability and disaster recovery plan(s).
 - h. Troubleshoot server issues and package compatibility.
- 2. Software and Network Management......500
 - a. Implement and manage network solutions.
 - b. Installing/uninstalling using package managers.
 - c. Building software components from source repositories.
 - d. Clustering and virtualization options for Linux systems.
 - e. Configuring virtual machines using e.g., VirtualBox, VMWare, Xen.

FROM:	Apprenti - 1982
	f. Balance network load.
	 3. Users and Group Management
	4. Mail, Directory, and Services Collaboration
	 5. Ticket Management and Documentation
	6. Perform other duties as assigned200
	Total Hours: 2000
	Competency Schedule:
	Competency Step Required Competency for Progression
	Pre-OJT RSI to OJT Completion of RSI with a grade of 75% or greater
	Step 1 to Step 2 Apprentice must meet or exceed 60% of competencies listed in

Competency Step	Required Competency for Progression	
Pre-OJT RSI to OJT	Completion of RSI with a grade of 75% or greater	
Step 1 to Step 2	Apprentice must meet or exceed 60% of competencies listed in	
	the work processes.	
Graduation	Apprentice must meet or exceed 85% of competencies listed in	
	the work processes.	

• [Please delete section VIII.E. in its entirety and replace with the following]

E. Cloud Operations Specialist:

Approximate Hours

- 1. <u>Customer Support800</u>
 - a. Communicate with customers to identify and scope issues.
 - b. Determine appropriate resolution tier (resolve or escalate).
 - c. Gather information from customers as needed to demonstrate the problem or determine appropriate fix.
 - d. Test and implement fix.
 - e. Manage customer account access and authenticate identity.
 - f. Communicate with customers on resolution, how to avoid recurrence, and any future action items.
- 2. Cloud Services Management......600

- a. Create and configure hosting, storage, and computing accounts in cloud services.
- b. Access and transfer data between systems and services.
- c. Write basic scripts to facilitate configuration and updates to cloud accounts.
- d. Use shell scripts to automate common tasks.
- e. Troubleshoot availability and performance issues.
- f. Coordinate with engineering team for more complex issues requiring escalation.
- 3. <u>Ticket Management and Documentation......400</u>
 - a. Work within existing task assignment and record-keeping systems.
 - b. Open, respond, manage, and close tickets.
 - c. Document resolution information.
 - d. Update documentation on configuration and status of servers.
 - e. Research past resolutions and clean up notes/records on architecture and data flow diagrams or related documents.
- 4. Perform other duties as assigned......200

Total Hours: 2000

Competency Schedule:

Competency Step	Required Competency for Progression
Pre-OJT RSI to OJT	Completion of RSI with a grade of 75% or greater
Step 1 to Step 2	Apprentice must meet or exceed 60% of competencies listed
	in the work processes.
Graduation	Apprentice must meet or exceed 85% of competencies listed
	in the work processes.

• [Please delete section VIII.F. in its entirety and replace with the following]

F. IT Business Analyst:

Approximate Hours

- 1. IT Business Needs Assessment and Analysis......300
 - a. Build business cases, identify requirements, and gather user stories/cases.
 - b. <u>Understand and advise on business and legal risks of data collection and presentation as appropriate, including assessment of internal/external stakeholders and scope of release of information reported.</u>
 - c. <u>Interact with relevant stakeholders to define scope, parameters, and types of data needed to build reports or identify vendor solutions.</u>
 - d. Delineate roles and access/clearance to any data sources that may be needed.
 - e. Research and evaluate industry trends, best practices, and new technologies and integrate this knowledge into current and future work activities.
 - f. Create and maintain project and process documentation.
- 2. Data and Process Modeling and Reporting......500
 - a. <u>Develop and design information gathering, analysis, and insight processes and</u> required data/information inputs.
 - b. Apply Agile methodology to process mapping and project planning.
 - c. Create and maintain databases and the reporting tools that feed them.

- d. Administer and maintain database server tools, security, and user accounts.
- e. Manipulate data with SQL queries.
- f. Work with data warehouse / ETL (extraction, transformation, and load) tools and packages to ensure integrity, transaction monitoring, and performance of reports/models.
- g. <u>Map and integrate data relationships and cross-reference with key values or</u> other unique identifiers.
- 3. Data Visualization and Analysis......800
 - a. Install and configure data reporting/business intelligence tools.
 - b. Connect and merge data sources.
 - c. Verify data integrity and accuracy.
 - d. Cognitive and perceptually aware design of data visualizations.
 - e. Build charts and representations of data in static and interactive environments.
 - f. Identify and highlight key metrics/performance indicators/decision triggers.
 - g. Configure hierarchies, filters, and other action parameters.
 - h. <u>Produce and present visualizations and business intelligence insight reports in multiple formats as required (e.g., PDF, PowerPoint, animation/video, text narrative).</u>
- 4. Solutions Management.......200
 - a. Given use cases and business needs, assess software/service vendor options.
 - b. Advise or perform requirements elicitation, bid/RFP processes.
 - c. Conduct user acceptance testing of chosen solution.
- 5. Perform other duties assigned......200

Total Hours: 2000

Competency Schedule:

Competency Step	Required Competency for Progression	
Pre-OJT RSI to OJT	Completion of RSI with a grade of 75% or greater	
Step 1 to Step 2	Apprentice must meet or exceed 60% of competencies	
	listed in the work processes.	
Graduation	Apprentices must meet or exceed 85% of competencies	
	listed in the work processes.	

[Please delete section VIII.G. in its entirety

G. <u>Cloud Operations Specialist 2:</u> <u>Approximate Hours</u>

- 1. Client Sales/account management......200
 - a. Gather information on existing solution/application
 - b. Provide information on available cloud products and services
 - c. Develop migration plans for new customers
- 2. Project Management......300
 - a. Estimate timelines for completion

- b. Track and coordinate activities of service units (technical, accounting, contracting, etc.)
- c. Report on status and outcomes internally and externally

	Customar Support	200
 	Customer Support	

- a. Communicate with customers to identify and scope issues
- b. Determine appropriate resolution tier (resolve or escalate)
- c. Gather information from customers as needed to demonstrate the problem or determine appropriate fix
- d. Test and implement fix
- e. Manage customer account access and authenticate identity
- f. Communicate with customers on resolution, how to avoid recurrence, and any future action items

4. Cloud Services Management700

- a. Create and configure hosting, storage, and computing accounts in cloud services
- b. Access and transfer data between systems and services
- c. Write basic scripts to facilitate configuration and updates to cloud accounts
- d. Use shell scripts to automate common tasks
- e. Troubleshoot availability and performance issues
- f. Coordinate with engineering team for more complex issues requiring escalation

5. Ticket Management and Documentation......400

- a. Work within existing task assignment and record-keeping systems
- b. Open, respond, manage, and close tickets
- c. Document resolution information
- d. Update documentation on configuration and status of servers
- e. Research past resolutions and clean up notes/records on architecture and data flow diagrams or related documents

6	Parform other duties	200

Total Hours: 2000

Competency Schedule:

Competency Step	Required Competency for Progression
Pre-OJT RSI to OJT	Completion of RSI with a grade of 75% or greater
Step 1 to Step 2	Apprentice must meet or exceed 60% of competencies
	listed in the work processes.
Graduation	Apprentice must meet or exceed 85% of competencies
	listed in the work processes.

• [Please delete section VIII.J. in its entirety and replace with the following

J. Cybersecurity Analyst:

Approximate Hours

- 1. Core Competencies for Cybersecurity Analyst400
 - a. <u>Contribute to the evaluation and selection of secure system design</u> solutions to ensure seamless integration and compatibility of system components.
 - b. Support the creation and implementation of network security policies and protocols to protect organizational assets.
 - c. <u>Develop and implement plans to safeguard digital assets against</u> <u>unauthorized access, data breaches, or accidental modification, while</u> <u>ensuring availability during emergencies.</u>
 - d. <u>Conduct risk assessments and perform security testing to validate the effectiveness of data processing systems and security controls.</u>
 - e. <u>Assist in formulating and refining cybersecurity policies, procedures, and best practices to enhance organizational resilience.</u>
- 2. Configure and Protect Cloud Data Stores and Local Databases300
 - a. <u>Monitor current reports of computer viruses to determine when to update virus protection systems.</u>
 - b. Apply cybersecurity functions (e.g. encryption, access control, and identity management) to secure. confidential information as it is being transmitted and to keep out tainted digital transfers.
 - c. Monitor use of data files and regulate access to safeguard information in computer files.
 - d. <u>Use Intrusion Detection Systems (IDS)</u>, firewalls, and honeypots.
- 3. Analyze Security Requirements and Configure Networked Systems.....300
 - a. Communicate with stakeholders to identify and scope issues.
 - b. Analyze organization's cyber defense policies and configurations and evaluate compliance with regulations and organizational directives.
 - c. <u>Implement security configuration parameters on network devices and other technologies.</u>
 - d. <u>Identify potential conflicts with implementation of any cyber defense</u> tools (e.g. tool and signature testing and optimization).
- 4. Monitor and Configure Access Control, Authentication, Encryption, and Cryptographic Systems, including Intrusion Detection And Penetration

<u>Testing.......300</u>

- a. <u>Modify computer security files to incorporate new software, correct</u> errors, or change individual access status.
- b. Test computer system operations.
- c. Monitor and configure access control systems.
- d. Monitor and configure authentication systems.
- e. Monitor and configure cryptographic systems.
- f. Coordinate with engineering team for more complex issues requiring escalation.
- 5. Conduct security and risk assessments and system audits......300
 - a. Implement security measures.

- b. <u>Conduct security assessments and coordinate with team to correlate threat assessment data.</u>
- c. <u>Perform risk and vulnerability assessments of relevant technology focus</u> areas.
- d. <u>Maintain deployable cyber defense audit toolkit and conduct system</u> audits.
- - a. <u>Confer with users to discuss issues such as computer data access needs, security violations, and programming changes.</u>
 - b. <u>Develop incident response plan.</u>
 - c. Implement incident response plan.
 - d. Develop and implement a business continuity plan.
- 7. Perform other duties as assigned100

Total Hours: 2000

Competency Schedule:

Competency Step	Required Competency for Progression
Pre-OJT RSI to OJT	Completion of RSI with a grade of 75% or
	<u>greater</u>
Step 1 to Step 2	Apprentice must meet or exceed 60% of
	competencies listed in the work processes
Graduation	Apprentice must meet or exceed 85% of
	competencies listed in the work processes

IX. <u>RELATED/SUPPLEMENTAL INSTRUCTION:</u>

[Please renumber section to number/letter/number where appropriate]

A. Minimum RSI hours per year defined per the following [see WAC 296-05-015(6)]:

1. Network Security Administrator	370
2. Software Developer 4	728 <u>600</u>
3. IT Support Professional	308
4. Systems Administrators	440
5. Cloud Operations Specialist 1-	440
6. Cloud Operations Specialist 2	560
7. IT Business Analyst	360
8. Developer Operations Specialist	640
9. Technical Sales Specialist	200
10. Cybersecurity Analyst	400
11. Software Analyst	480
12. CRM Administrator	210 <u>200</u>
13. CRM/CMS Developer	320

 14. Data Analyst
 400

 15. Web Developer
 328 320

XI. SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE

• [Please delete and replace committee with the following. No new members, only address update]

E. 1. c. The employer representatives shall be:

Birgit Ziedler, Secretary Nick Curry F5 Amazon

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027

Hunter Davis Robin Baker

MantraHealth AWS

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027

Amaris Batista

Amazon

1420 NW Gilman Blvd, Suite 2

#9110

Issaquah, WA 98027

d. The employee representatives shall be:

Lauren McGuire, Chair Lief Zimmerman

Weyerhaeuser F5

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027

John Fearnside Steven Lowe Adobe Comtech

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027

155uquan; 1111 70027 155uquan; 1111 70027

Tre Ammatuna Warren Wright, Alternate
Amazon NCC Group North America

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027

XIII. TRAINING DIRECTOR/COORDINATOR:

• [Please delete and replace Training Director/Coordinator with the following. No new members, only address update]

Jennifer Carlson Kyle McAlice Apprenti Apprenti

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027

Andrea Anderson Jill Hasson
Apprenti Apprenti

1420 NW Gilman Blvd, Suite 2 1420 NW Gilman Blvd, Suite 2

#9110 #9110

Issaquah, WA 98027 Issaquah, WA 98027



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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name	
Apprenti - 1982	
Occupation	
CRM Administrator	
Term/OJT Hours	Total RSI Hours
2000	200
Training Provider	
Apprenti	

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprentice 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 compliances with WISHA and applicable federal and state regulations.
- 4. The RSI Plan is maintained, updated and submitted to the Department a minimum of once every 5 years (WSATC Policy 2015-01; rev, 10-21-21).
- 5. The RSI will be conducted by instructors who meet the qualification of the "competent instructor" as described in WAC 296-05-003:
 - a. Has demonstrated a satisfactory employment performance in her/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.
- 6. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, instruction shall be clearly defined.

Signatures on next page

Form must be signed by Committee Chair <i>and</i> Secretary <i>or</i> Program's Authorized Signer				
☐ Chair ☑ Authorized Signer	Date 4/23/2025	Secretary	Date	
Print Name:	.,	Print Name:	L	
Andrea Anderson		i ilitivamo.		
Signature: Andre Andre	·	Signature:		
Training Provider Signa	ture			
Approved By (Print Name): Martin Sehlin		Title: Sr. Manager of Ed	ucation	
Signature of the Training Pro	vider: Martin Sehli	i		
Date: 4/23/2025				
If additional training provide	rs are needed, go to page 4.			
Print Name:		Title:		
Signature of the Program Adr	ministrator:			
Date:				

 $\hfill \square$ SBCTC recommends return to sponsor

 $\hfill \square$ SBCTC recommends approval

Program Name Apprenti - 1982	Occupational Objective CRM Administrator
•	n sufficient detail to provide adequate information for review nore elements, click on the plus sign that appears below the
Describe minimum hours of study per year in	terms of (check one):
\square 12-month period from date of registration.	
□ Defined 12-month school year.	
☑ 2,000 hours of on-the-job training.	
Element/Course: Excel	Planned Hours: 24
Mode of Instruction (check all that apply)	
☐ Classroom ☐ Lab ☒ Online ☐ Self-Si	tudy
Provided by: Apprenti Description of element/course:	
Intro to Data Analytics and Excel Foundat	ions
 Spreadsheet Basics and Formatting 	
 Basic Formulas and Functions 	
 More Complex Functions 	
Chart Building	
Pivot Tables Proceedings of the leading of	
Data Cleaning and Error-Checking Data Eyploration	
Data ExplorationData Model Building	
• Data Model Dunding	
Element/Course: CRM Platform Basic Admir	nistration Planned Hours: 96
Mode of Instruction (check all that apply)	6. d
☐ Classroom ☐ Lab ☒ Online ☐ Self-Si	ludy
Provided by: Apprenti Description of element/course:	
 Configuration and Setup 	
 Assign Company Settings 	
 Configure and Manage Users 	
 Adjust Security Controls 	
 Object Manager and Lightning App Builde 	er
 Recognize Object Architecture and 	d Relationships
· ,	
 Customize the App 	
 Sales, Marketing, Service, and Support Ap 	plications
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management 	plications
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity 	plications
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management 	plications
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management Productivity and Collaboration 	
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management Productivity and Collaboration Describe Productivity and Collaboration 	
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management Productivity and Collaboration Describe Productivity and Collaboration Data and Analytics Management 	
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management Productivity and Collaboration Describe Productivity and Collaboration Data and Analytics Management Harness Data Management Tools 	
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management Productivity and Collaboration Describe Productivity and Collaboration Data and Analytics Management Harness Data Management Tools Build Reports and Dashboards 	
 Sales, Marketing, Service, and Support Ap Conduct Campaign Management Assess Sales Productivity Automate Case Management Productivity and Collaboration Describe Productivity and Collaboration Data and Analytics Management Harness Data Management Tools 	

o Follow Approval Processes

- Fundamentals
 - Explore the platform
 - Navigate the Architecture
- The Big Picture: All Users
 - o Gather Company Information and Licensing
 - Determine your Fiscal Year and Currency
 - Organize and Collaborate
 - Manage Users
 - Assess Login Security Controls
- Feature and Object Access
 - Understand Profiles
 - o Define Permission Sets
 - Evaluate Field-Level Security
- Record Access
 - Determine Record Ownership
 - Establish Organization-Wide Defaults
 - Build Role Hierarchy
 - o Implement Sharing Rules
 - o Design Teams and Manual Sharing Requirements
 - Set Restriction Rules
- Standard Functionality Customizations
 - o Understand an Object
 - Explore Standard and Custom Fields
 - Navigate Relationship Fields
 - o Generate Custom Formula Fields
- The Existing User Interface (UI)
 - Customize Applications
 - Build a Home Page
 - o Explore Tabs and List Views
 - Adjust Page Layouts
 - o Generate Dynamic Forms
 - Incorporate Buttons, Links, and Actions
 - O Design Record Types, Business Process, and Path
- Data Management
 - o Back Up Data
 - o Import, Export, and Update Data
 - o Mass Delete and Mass Transfer
 - Use Data Quality and Cleansing Tools
- Declarative Automation
 - Learn Automation Fundamentals
 - Build Validation Rules
 - Manage Leads and Cases
 - o Design Workflows and Processes
 - Outline an Approval Process
- The Future of Automation: Flow
 - Define Flow
 - Build a Flow To Update a Field
 - Build and Combine Flows
 - o Deploy Flow with a Lightning Component
 - Follow Order of Execution
- New Objects

- o Create a New Object
- o Build a New Custom Tab
- o Deploy a Change Set
- o Generate a Mobile Layout
- Analytics
 - o Define Report Components
 - o Create Filters and Formulas
 - o Implement Conditional Formatting and Charts
 - o Manage Exports and Subscriptions
 - o Build Dashboards

Element/Cour	se: CRM Platform Advanced Administration	Planned Hours:	80
Mode of Instruction	(check all that apply)		
☐ Classroom	□ Lab ⊠ Online □ Self-Study		
Provided by: /			
Description of elem			
• Salesfo	orce Security and Access		
0	Access the Org		
0	Assign Object Permissions		
0	Determine the Impact of Sharing		
0	Delegate Administration		
 Object 	s and Applications		
0	Build Custom Objects		
0	Determine Object Relationships		
0	Design Custom Applications		
0	Create Page Layouts		
0	Conduct Quick Actions		
 Cloud 	Applications		
0	Use Sales Cloud Applications		
0	Reference Service Cloud Applications		
0	Create Experience Sites		
	and Analytics Management		
0	Import Data		
0	Harness Data Quality Tools		
0	Use Reporting Tools		
	onment Management and Deployment		
o Enviro	Experiment in Sandboxes		
0	Move Data		
_	ss Automation		
	Review Automation Tools		
0	Define Flow		
0			
0	Describe Flow and the Save Order of Execution		
0	Explore Auditing Tools		
• Data S	ecurity		
0	Access the Org		
0	Enable Object Permissions		
0	Determine the Impact of Sharing		
0	Delegate Administration		
 Object 	ts, Fields, and Relationships		
0	Create Custom Objects		
0	Customize Fields		

Build Master Detail and Lookup Relationships Determine Benefits of Relationship Fields Implement Additional Relationship Types Efficiency with Lightning Apps Build Lightning Applications Select Tabs o Understand Page Layout Editor o Apply Quick Actions Follow Record Type and Business Process **Data Quality** o Follow the Data Quality Lifecycle o Enforce Data Quality o Follow Validation Rules and Formula Functions Eliminate Duplicates Salesforce Flow o Identify the Right Automation Tool **Understand Flow** Migrate to Flow o Implement Flow and the Order of Execution Flow: Building from Scratch Build a Flow: The Basics o Build a Flow: Resources and Elements Manage Collection Create a Flow Flow: Considerations and Troubleshooting Assess Considerations o Determine Limitations Troubleshoot The Approval Process o Define an Approval Process Create an Approval Process Troubleshoot an Approval Process **Automation Audits and Extensions** o Follow the Order of Execution o Harness Auditing Tools Extend Beyond Automations **Advanced Reporting** Create Custom Report Types o Generate Exception Reports with Cross Filters o Bucket Data **Conduct Historical Reporting** Extend Summaries in Reports and Dashboards

Element/Course: Element/Course	Planned Hours:	Hours
Mode of Instruction (check all that apply)		
□ Classroom □ Lab □ Online □ Self-Study		
Provided by: Click or tap here to enter text.		
Description of element/course:		
Click or tap here to enter text.		

Element/Course:	Element/Course	Planned Hours:	Hours

Mode of Instruction (check all that apply)	
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study	
Provided by: Click or tap here to enter text.	
Description of element/course:	
Click or tap here to enter text.	
Element/Course: Element/Course	Planned Hours: Hours
Mode of Instruction (check all that apply)	
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study	
Provided by: Click or tap here to enter text.	
Description of element/course:	

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider



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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name	
Apprenti - 1982	
Occupation	
Software Developer	
Term/OJT Hours	Total RSI Hours
2000	600
Training Provider	
Apprenti	

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprentice 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 compliances with WISHA and applicable federal and state regulations.
- 4. The RSI Plan is maintained, updated and submitted to the Department a minimum of once every 5 years (WSATC Policy 2015-01; rev, 10-21-21).
- 5. The RSI will be conducted by instructors who meet the qualification of the "competent instructor" as described in WAC 296-05-003:
 - a. Has demonstrated a satisfactory employment performance in her/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.
- 6. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, instruction shall be clearly defined.

Signatures on next page

Form must be signed by Committee Chair <i>and</i> Secretary <i>or</i> Program's Authorized Signer				
☐ Chair ☑ Authorized Signer	Date 4/23/2025	Secretary	Date	
Print Name: Andrea Anderson		Print Name:		
Signature: Andre Andre	·	Signature:		
Training Provider Signa	ture			
Approved By (Print Name): Martin Sehlin		Title: Sr. Manager of Edu	ucation	
Signature of the Training Pro	vider: Martin Sehli	i.		
Date: 04/23/2025				
If additional training provide	rs are needed, go to page 4	4.		
Print Name:		Title:		
Signature of the Program Ad	ministrator:			
Date:				
☐ SBCTC recommends a	pproval	BCTC recommends ret	urn to sponsor	

Program Nam	ne	Occupational Objective		
Apprenti - 198		Software Developer		
		,		
	cription of each element must be in suffic			
	and Review Committee. To add more ele	ements, click on the plus s	ign that appears be	elow the
Description of	Element/Course" field.			
	mum hours of study per year in terms	of (check one):		
•	eriod from date of registration.			
\square Defined 12-ı	month school year.			
	of on-the-job training.			
	-			
Element/Cour			Planned Hours:	30
	n (check all that apply)			
☐ Classroom				
Provided by: A				
Description of elem				
-	ypes – Strings, numbers and booleans			
	tructures – Arrays and objects	CON Clarge Copies Obia at Mar	tification	
	tence – Local storage, session storage and J		=	
• Code s	tructure – Code organization, common pat	terns and project scanoidir	ıg	
Element/Cour	se: Introduction to Standard Developr	ment Practices and	Planned Hours:	16
Element/Cour	Tools	Herit Fractices and	Fiailileu Fiours.	10
Mode of Instruction	r (check all that apply)			
☐ Classroom				
Provided by: A				
Description of elem				
 Softwa 	re Development Lifecycle (SDLC)			
•	Agile Software Development vs Waterfall	and other methodologies		
User st	tories, pair programming, retrospectives a	nd problem domains		
• IDE (In	ntegrated Development Environment) Synt	tax highlighting & linting		
•	Discoverable shortcuts			
•	Scope awareness			
•	Extensibility			
•	Power editing – Multiline edits, pasteboa	rd history and rapid file sw	itching	
•	Symbol autocomplete			
• Git				
0	Version control systems – Distributed VC	S, Branch, Merge and Diff		
0	Github – Gitflow, Fork and Pull requests			
0	Config – Remotes and Default behaviors			
 Operat 	ting system			
0	File management			
0	Admin permissions			
0	Package management			
0	Local web server			
0	Task supervision			
• Comm	and line			
0	Navigation			
0	Secure connections & private keys			
0	File content control			

E	T =	4.0
Element/Course: Web Development with HTML and CSS	Planned Hours:	40
Mode of Instruction (check all that apply)		
□ Classroom □ Lab ☒ Online □ Self-Study		
Provided by: Apprenti		
Description of element/course:		
 HTML (Hypertext Markup Language) 		
 Semantic HTML (tags, document object model, syntax) 		
 Structure 		
 Classes 		
o IDs		
Attributes		
o Forms		
CSS (Cascade Style Sheet)		
 Style – Typography, color, design and animations 		
 Layout – Box model, grid, fluid/flex and responsive design 		
 Syntax – Selectors, how "cascading" works and pseudo-classes, inhe 	eritance	
 Browser-specific CSS parameters and cross-browser compatibility: 	issues	
Element/Course: Web Development with JavaScript	Planned Hours:	40
Mode of Instruction (check all that apply)	Tidillica Hours.	70
□ Classroom □ Lab ☒ Online □ Self-Study		
Provided by: Apprenti		
Description of element/course:		
 Fundamentals – Variables, syntax, style, REPL (Read-Eval-Print Loop), data 	types and data	
• structures	types and data	
] "] -: - "	
• Control Flow – "for" loops, "if" statements, "ifelse" statements and "while"		
Functions – Declarations, expressions, parameters & arguments and functions		
 Objects – Object oriented programming, properties, methods and construct 	tors	
 Events – Listeners, handlers and types 		
 Events – Listeners, handlers and types The JavaScript DOM (Document Object Model) vs HTML DOM 		
 The JavaScript DOM (Document Object Model) vs HTML DOM 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code 	PIs and manage app	ication
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A 	PIs and manage app	ication
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code 	PIs and manage app	ication
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A 	PIs and manage app	ication
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics	PIs and manage app	ication 50
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply)		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti 		
The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom □ Lab ☑ Online □ Self-Study Provided by: Apprenti Description of element/course:		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control ○ Conditionals 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control Conditionals Iterators 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control Conditionals Iterators Object-oriented programming 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control Conditionals Iterators 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) □ Classroom □ Lab ☒ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control Conditionals Iterators Object-oriented programming 		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom □ Lab ⋈ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control Conditionals Iterators Object-oriented programming Classes & instances Attributes & methods & properties 		
The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom Lab Online Self-Study Provided by: Apprenti Description of element/course: Flow control		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom □ Lab ☑ Online □ Self-Study Provided by: Apprenti Description of element/course: Flow control Conditionals Iterators Object-oriented programming Classes & instances Attributes & methods & properties Inheritance & composition Duck typing & special methods 		
The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom		
 The JavaScript DOM (Document Object Model) vs HTML DOM Test and debug JavaScript code Develop React applications that incorporate JavaScript to fetch data from A state Element/Course: Programming in Python and Software Testing Basics Mode of Instruction (check all that apply) Classroom		

- **Software Testing Intro** Types – Unit, functional, integration, performance, acceptance and regression Tools – Pytest & Python unittest, factories & fixtures and mocks & stubs TDD - Outside-in refactors and tests as design tool A/B testing and manual OA techniques Blackbox testing and automation Element/Course: Object-oriented Progamming (C#, Java, Objective-C) Planned Hours: 200 Mode of Instruction (check all that apply) ☐ Classroom ☐ Lab Provided by: Apprenti Description of element/course: • Computer Hardware Interaction Components and addressing (clocks, caches, registers, types of memory)
- Numbering systems and computer math Converting bin/hex/decimal systems Configuring a development environment (e.g., Eclipse, Visual Studio) Understanding code compiling Interpreted languages and runtime compiling vs native execution Bytecode translation o "Porting" code o Architecture customization and constraints (e.g., x86 vs. ARM) Language syntax and statements Defining variables and objects o Classes vs. types o Simple operators, IF logic Fundamental debugging methods Assignment and arithmetic operators Structured programming, decision structures Loop structures and arrays Manipulating data Connecting to databases Structuring data objects Returning or exporting data Interface design Human/computer interaction basics User interface objects Responsive design o Automated interface builders/auto layout tools Web-based frontends Packaging UI for mobile applications Memory and performance management Garbage collection Releasing memory Freeing up CPU time

Releasing memory
 Freeing up CPU time
 Performance optimization techniques
 Comments and documentation methods and significance

Element/Course: Data Structures & Algorithms	Planned Hours:	80
Mode of Instruction (check all that apply)		
□ Classroom □ Lab ☒ Online □ Self-Study		
Provided by: Apprenti		
Description of element/course:		
 Linear data structures – Linked lists, Stack, Queue 		

- Tree data structures Binary heap, priority queue, binary search tree and trie trees
- Graphs Directed, undirected, weighted and shortest path algos
- Sorting algorithms Merge, Insertion, Quicksort and Radix
- Machine learning & data science algorithms
 - o Unsupervised learning k-means
 - Supervised learning
 - k-nearest neighbor
 - Linear regressions

Element/Course: Application Development Planned Hours: 128			
Mode of Instruction (check all that apply)			
□ Classroom □ Lab ☒ Online □ Self-Study			
Provided by: Apprenti			
Description of element/course:			
 Applied Capstone Project 			
 Apprentice or employer-directed project goals 			
 Establishing client specs (from assignment brief 			
 Distributing work across teams 			
 Testing and integrating code into larger projects 			
 Continuous delivery, Software-as-a-Service considerations 			
 Production vs. testing infrastructure 			
Submission review and commits			
 Peer feedback and code review sessions 			
 Knowing when to push a "final" build 			
Integrate and apply material delivered in other RSI elements			
 Define project scope and identify performance, delivery, and security objectives 			
 Establish code repository and store project files 			
Wireframe or prototype project			
 Time management 			
 Delegation of tasks (if group project) 			
 Build functional code using Agile or assigned methodology, with Git or other repository tracking 			
tools			
 Testing techniques and preparation for deployment 			
Error handling and failing gracefully			
 User experience considerations 			
 Presentation and demonstration of projects to clients/peer review audiences 			
110001100110110110110110110110110110110	,,,,		
Element/Course: Introduction to Cloud Technologies	Planned Hours: 16		
Mode of Instruction (check all that apply)			
\square Classroom \square Lab $\ oxtimes$ Online $\ \square$ Self-Study			

Containers

Provided by: Apprenti
Description of element/course:

• Private vs Public Cloud

Serverless Computing

Cloud ComputingCloud Migration

• Physical Server vs Cloud Server

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider



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



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name	
Apprenti - 1982	
Occupation	
Web Developer	
Term/OJT Hours	Total RSI Hours
2000	320
Training Provider	
Apprenti	

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprentice 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 compliances with WISHA and applicable federal and state regulations.
- 4. The RSI Plan is maintained, updated and submitted to the Department a minimum of once every 5 years (WSATC Policy 2015-01; rev, 10-21-21).
- 5. The RSI will be conducted by instructors who meet the qualification of the "competent instructor" as described in WAC 296-05-003:
 - a. Has demonstrated a satisfactory employment performance in her/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.
- 6. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, instruction shall be clearly defined.

Signatures on next page

Form must be signed by	/ Committee Chair <i>and</i> S	Secretary <i>or</i> Progra	am's Authorized Signer
☐ Chair ☑ Authorized Signer	Date 4/23/2025	Secretary	Date
Print Name:		Print Name:	•
Andrea Anderson			
Signature: Andre Anler	·	Signature:	
Training Provider Signa	ture		
Approved By (Print Name): Martin Sehlin		Title: Sr. Manager of Edu	ucation
Signature of the Training Pro	vider: Martin Sehli	N	
Date: 4/23/2025			
SBCTC	rs are needed, go to page 4		
Print Name:		Title:	
Signature of the Program Adr	ministrator:		
Date:			

 $\hfill \square$ SBCTC recommends return to sponsor

 $\hfill \square$ SBCTC recommends approval

Program Name	Occupational Objective		
Apprenti - 1982	Web Developer		
Note: The description of each element must be in suffic	ient detail to provide adeq	uate information for review	
by the SBCTC and Review Committee. To add more ele			
'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: Introduction to Computer Science	& Web Development	Planned Hours: 40	
Mode of Instruction (check all that apply)	a vveb Development	Tialified Flours. 40	
☐ Classroom ☐ Lab ☒ Online ☐ Self-Study			
Provided by: Apprenti			
Description of element/course:			
Data types – Strings, numbers and booleans			
Data structures – Arrays and objects	CONG. C Ol N.		
Persistence – Local storage, session storage and J		-	
Code structure – Code organization, common pat Constant of the code organization organizat		•	
Overview of web development – CRUD (Create, R Protogol), REST (Representational State Transfer	-	* * *	
Protocol), REST (Representational State Transfer) and request/response Cy	rcie	
Element/Course: Introduction to Standard Development	nent Practices and	Planned Hours: 80	
Tools			
Mode of Instruction (check all that apply)			
☐ Classroom ☐ Lab ☒ Online ☐ Self-Study			
Provided by: Apprenti Description of element/course:			
Agile Software Development			
 Agile Principles and Manifesto 			
 Key Agile Methodologies (Scrum, Kanban, XP))		
 The Agile Development Process 			
 Collaboration and Communication 			
 Continuous Feedback and Improvement 			
 Version Control and Continuous Integration ((CI)		
o Test Driven Development (TDD)			
 Agile Tools 			
 IDE (Integrated Development Environment) – Ato 	om, chrome development to	ools, debugging, and linting	
code functionality and style			
 Software best practices 			
 Object oriented programming 			
o Debugger/Breakpoints			
o Industry perspectives			
Dependency management Style guides and linters			
Style guides and lintersGit			
 Git vs. GitHub, git clone, git init, git status Adding, committing and pushing 			
 Adding, committing and pushing Forking a repo, pull requests, git status and b 	ranches		
 Team workflow issues and organization 			
		· · · · · · · · · · · · · · · · · · ·	

Click or tap here to enter text.		

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider