Teri Gardner 8-21-2020

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



REQUEST FOR REVISION OF STANDARDS

RECEIVED By Evan Hamilton at 10:06 am. Aug 18	. 2020
L&I apprenticeship coordinat	or

T

TO: Washington State Apprenticeship & Training Council

From:_ACTIV - ACCELERATED CAREER TRAINING AND INNOVATION - 2170_ (NAME OF PROGRAM STANDARDS)

Please update our Standards of Apprenticeship to reflect the following changes. Additions shall be <u>underlined</u>. Deletions shall be struck through. See attached.

Authorized signatures	
(chr.) Mul flah	Approved by: Washington State Appropriate his & Training Council
	Washington State Apprenticeship & Training Council
^(sec.) Luke Hanzen	Secretary of WSATC:
^{date:} 8/18/2020	date:

attach additional sheets if necessary

Occupational Objective(s):	SOC#	<u>Term [WAC 296-05-015]</u>
INFORMATION SECURITY ANALYST	<u>15-1122.00</u>	<u>2000</u>
LINUX/OPEN SOURCE IT SYSTEM ADMINISTRATOR	15-1142.00	2000

I. <u>GEOGRAPHIC AREA COVERED:</u>

The area covered by these Standards shall be the Washington State counties of: <u>King</u>, Thurston, Mason, Lewis and Pierce.

IV. APPRENTICE WAGES and WAGE PROGRESSION:

C. Insert Occupational Name_All Occupations

VIII. WORK PROCESSES:

B. <u>Information Security Analyst</u>

Approximate Hours/Competency Level

- 1. <u>Apply and Practice IT and Cybersecurity Fundamentals</u>.....<u>130</u>
 - a. <u>Learn and apply IT disciplines and principles to cybersecurity operations.</u>
 - b. IT Infrastructure/service basics, including networks, servers, cloud, desktops, applications
 - c. Cybersecurity fundamentals terminology, tools, body of knowledge, types of jobs

- a. <u>Contribute and provide leadership, management, direction, or development and advocacy so the</u> <u>organization may effectively conduct cybersecurity work.</u>
- b. <u>The threat landscape history of cybercrime, case studies</u>
- c. The written and unwritten rules, regulations, standards, ethics of cybersecurity Trust
- - a. <u>Securely provision IT resources by conceptualizing, designing, procuring, and/or building secure IT</u> systems, with responsibility for aspects of system and/or network development.
 - b. Cybersecurity analysis and design
 - c. System threats and countermeasures
- - a. <u>Provide the support, administration, and maintenance necessary to ensure effective and efficient IT</u> <u>system performance and security. The following IT and cybersecurity man-agement principles will</u> <u>be adhered to:</u>
 - b. <u>NIST framework</u>
 - c. <u>Project Management principles</u>
 - d. <u>ITIL principles</u>
 - e. **Business Applications**

- a. <u>Contribute and collaborate to identify, analyze, and mitigate cybersecurity threats to internal IT</u> systems and/or networks.
- b. <u>Incident response</u>
- c. Incident Management
- d. **Digital Forensics**
- e. <u>Recovery management</u>

- a. <u>Contribute and perform highly-specialized review and evaluation of incoming cybersecurity</u> <u>information to determine its usefulness for intelligence.</u>
- b. <u>Collect and operate IT systems to provide specialized denial and deception operations and</u> <u>collection of cybersecurity information that may be used to develop intelligence.</u>
- c. <u>Investigate cybersecurity events or crimes related to IT systems, networks, and digital evi-dence.</u>
- d. <u>Network and Security Monitoring</u>
- e. <u>Encryption</u>
- f. Vulnerability Scanning

- g. <u>Penetration Testing</u>
- h. <u>Packet Sniffing and Password Auditing</u>
- i. <u>Wireless defense</u>
- j. <u>Network Intrusion Detection</u>
- k. Managed Detection Services

- a. Learn and practice effective communications within internal and external stakeholders.
- b. <u>Communications within IT teams and overall organization</u>
- c. <u>Technical writing best practices</u>
- d. Dealing with business and technical stakeholders
- e. Dealing with Law Enforcement and external agencies

Total Hours/# of Competency Levels:

<u>(2000)</u>

<u>C.</u> <u>Linux/Open Source IT System Administrator</u>

Approximate Hours/Competency Level

- - a. Learn and apply IT disciplines and principles to system administration.
 - b. <u>Deploy and manage Linux distributions/ Windows Server</u>
 - c. Update and monitor system components
 - d. Storage solution management
 - e. Manage file and print services
 - f. <u>Security encryption and audit configuration</u>
 - g. Monitor and configure network services
 - h. <u>Create availability and disaster recovery plan(s)</u>
 - i. <u>Troubleshoot server issues and package compatibility</u>

- - a. Contribute and provide support to the management of IT infrastructure and systems
 - b. <u>Implement and manage network solutions</u>
 - c. Installing/uninstalling using package managers
 - d. <u>Building software components from source repositories</u>
 - e. <u>Clustering and virtualization options for Linux systems</u>
 - f. <u>Configuring virtual machines (VMware, Xen, Hyper-V) and Containers</u>
 - g. <u>Balance network load</u>

- a. <u>Provide IT support to the management of end users and groups in the organization.</u>
- b. <u>Configure domain controller(s)</u>
- c. <u>Implement and manage group policy</u>
- d. <u>Maintain active directory domain services</u>
- e. Supervise and monitor active directory certificate and rights management
- 4. Mail, Messaging, Directory, and Services Collaboration 300
 - a. <u>Provide IT support to the management of key communication and collaboration application with</u> <u>the organization</u>
 - b. <u>Plan and configure user mailbox, groupware, and messaging services (e.g., Ex-change)</u>
 - c. Plan, configure and support user collaboration platforms (Microsoft Teams, Slack)

5. Helpdesk Ticket Management 400

- a. <u>Provide IT support to end users for key business application and services.</u>
- b. <u>Work within existing task assignment and record-keeping systems.</u>
- c. Open, respond, manage, and close tickets.
- d. Document resolution information.
- e. <u>Update documentation on configuration and status of servers.</u>
- f. <u>Research past resolutions and clean up notes/records on architecture and data flow diagrams or related documents.</u>

Total Hours/# of Competency Levels:

(2000)

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

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

(X) State Community/Technical college

- B. (417 See Below) Minimum RSI hours per year defined per the following [see WAC 296-05-015(6)]:
 - (X) Twelve-month period from date of registration.*
 - (X) Defined twelve-month school year: (September) through (June).
 - () Two-thousand hours of on the job training.
- C. Additional Information:

(Insert text)

- 1. Software Developer, Applications RSI Total: 417
- 2. Information Security Analysts RSI Total: 540
- 3. Linux/Open Source IT System Administrator: 620

esh 8/18/20 RECEIVED By Evan Hamilton at 8:00 am. Sep 10. 2020

Teri Gardner 9-10-2020 Teri Gardner 8-21-2020

XI. <u>SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE</u>

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

Mark Meyer, Chair <u>PeopleTech</u> 1217 235th place NE Sammamish, WA 98074

Curt Miller, alternate 975 Carpenter Rd NE ste 101 Lacey, WA 98516 <u>AirNote LLC</u> 2622 239th Ave SE Sammamish, Wa 98075 Steve Wood 975 Carpenter Rd NE ste 101 Lacey, WA 98516 <u>AirNote LLC</u> 2622 239th Ave SE Sammamish, Wa 98075

d. The employee representatives shall be:

Tiffany Anderson, Secretary 7207 6th Ave SE Lacey, WA 98503 Padmini Vijayanand, Secretary 975 Carpenter RD NE STE 101 Lacey WA 98516 Chris Fuess 1617 Bethel St SE Olympia, Wa 98506 Andrew Gilbert 975 Carpenter Rd NE ste 101 Lacey, Wa 98516

Charles Cherry, alternate 975 Carpenter Rd NE ste 101 Lacey, WA 98516 Nimita Dedhia, alternate PeopleTech 18300 NE Union Hill Road ste 210 Redmond, Wa 98502

Teri Gardner 8-21-2020

RECEIVED By Evan Hamilton at 9:55 am, Aug 18, 2020

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



Journey Level Wage Rate From which apprentices' wages rates are computed

Washington State Apprenticeship & Training Council TO:

From ACTIV - ACCELERATED CAREER TRAINING AND INNOVATION # 2170

(NAME OF STANDARDS)

Occupations	County(s)	Journey Level Wage Rate	Effective Date:
INFORMATION SECURITY ANALYST	Thurston, Mason, King, Lewis and Pierce.	34.88	9/1/20
SECURITY ANALYST LINUX/OPEN SOURCE IT SYSTEM ADMINISTRATOR	Thurston, Mason, King, Lewis and Pierce.	33.16	9/1/20



Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor	Toni Gandnon, 8-21-2020
ACTIV (Accelerated Career Training and Innovation)	
Skilled Occupational Objective	U
IT System Administrator (Linux & Open Source Specia	lization)
Term/OJT Hours 2,000	Total RSI Hours 620
Training Provider	
Bellevue College Continuing Education (Tombolo Insti	tute)

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.

Mark Meyer

Printed Name of Program Sponsor

MJ MA 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.

Albert Lewis Jr. Print Name Training Provider

VP, Economic & Workforce Development Title of Training Provider

Signature of Training Provider

Bellevue College Organization of Training Provider

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

Additional Resources: <u>Apprenticeship Related Supplemental Instruction (RSI) Plan Review Glossary of Term</u> (F100-519-000) and <u>Apprenticeship Related Supplemental Instruction (RSI) Plan Review Criteria (F100-521-</u> 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 return to sponsor □ SBCTC recommends approval Additional Training Providers (if necessary)

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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Signature of Training Provider

Click or tap here to enter text. Organization of Training Provider

Program Sponsor:	Skilled Occupational Objective:
ACTiV (Accelerated Career Training and Innovation)	IT System Administrator (Linux and Open Source
	Specialization)

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):

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

RSI Curriculum:

Element/Course: CompTIA A+	Planned Hours: 60	Hours
Mode of Instruction (check all that apply)		
🛛 Classroom 🛛 Lab 🖾 Online 🗆 Self-Study		
Provided by: Bellevue College Continuing Education		
Description of element/course:		
This course will provide an introduction to foundational IT skills across a	a variety of devices ar	nd
operating systems. This course is a primer for the coursework to follow,	including:	
Hardware		
Operating Systems		
 Software Troubleshooting 		
Networking		
 Hardware & network troubleshooting 		
Security		
Mobile devices		
 Virtualization & Cloud computing 		
Operational procedures		

Element/Course:	CompTIA Network+	Planned Hours: 60	Hours	
Mode of Instruction	(check all that apply)			
🛛 Classroom	Lab 🛛 Online 🛛 Self-Study			
Provided by: Bellev	ue College Continuing Education			
Description of elem	ent/course:			
This course will pro	This course will provide the essential skills needed to confidently design, configure, manage and			
troubleshoot any w	red and wireless devices. This course will enable s	tudents to learn the to	llowing	
Skills:				
 Networking 	concepts			
 Infrastructur 	e			
 Network operation 	erations			
 Network sec 	curity			
Network trop	ubleshooting & tools			

Element/Course: C	CompTIA Linux+	Planned Hours: 60	Hours
Mode of Instruction (c	check all that apply)		
🛛 Classroom 🛛 La	ab 🛛 Online 🛛 Self-Study		
Provided by: Bellevue	e College Continuing Education		

Description of element/course: This course will provide the provide the competency for an early system administrator career in supporting Linux systems. This course will enable students to learn the following skills:

- Hardware & system configuration
- System operation & maintenance
- Security
- Linux troubleshooting and diagnostics
- Automation and scripting

Element/Course: CompTIA Server+		Planned Hours: 60	Hours
Mode of Instruction (check all that apply)			
🖾 Classroom 🗌 Lab 🖾 Online 🔲	Self-Study		
Provided by: Bellevue College Continuin	g Education		
Description of element/course:			
This course will provide the technical know	owledge and skills to perform a	variety of tasks on se	erver
platforms in data centers or cloud compu	uting. This course will enable st	udents to learn the fo	llowing:
 Server architecture 			
 Server administration 			
Storage			
Security			
Networking			
 Disaster Recovery 			
 Troubleshooting 			

Element/Course:	CompTIA Cloud+	Planned Hours: 60	Hours
Mode of Instruction	(check all that apply)		
🛛 Classroom	Lab 🛛 Online 🛛 Self-Study		
Provided by: Bellev	ue College Continuing Education		
Description of elem	ent/course:		
This course will pro	vide the knowledge and skills to securely implement	t, maintain and utilize	cloud
computing technolo	gies. This course will enable students to learn the fo	ollowing skills:	
 Configuration 	ins and deployment		
 Cloud mana 	igement		
Maintenance			
 Security 			
Troubleshoo	oting		

Element/Course:	CompTIA Security+	Planned Hours: 60	Hours
Mode of Instruction	(check all that apply)		
\boxtimes Classroom	Lab 🛛 Online 🛛 Self-Study		
Provided by: Bellev	ue College Continuing Education		
Description of elem	ent/course:		
This course will provide the knowledge and skills to perform core security function and apply best			
practices in IT netw	ork and operational security. This course will enable	e students to learn the	
following skills:			
 Threats, atta 	acks & vulnerabilities		
 Technologie 	s and tools		
Architecture	& design		

• Identity & access management

- Risk management
- Cryptography & PKI

Element/Course:	Fundamentals of Linux, LFS300	Planned Hours: 32	Hours	
Mode of Instruction	(check all that apply)			
⊠ Classroom	Lab 🛛 Online 🛛 Self-Study			
Provided by: Bellev	ue College Continuing Education			
Description of elem	ent/course:			
This course will give you a good working knowledge of Linux, from both a graphical and command line perspective, allowing you to easily navigate through any of the major Linux distributions.				
• The flistory				
How to insta	How to install Linux			
How to use the Graphical User Interface				
 How to cont 	rol Linux using the command line			
Basic Linux	security			
And much m	nore!			

Element/Course:	Linux Networking & Administration, LFS211	Planned Hours: 50	Hours	
Mode of Instruction	(check all that apply)			
⊠ Classroom	Lab 🛛 Online 🛛 Self-Study			
Provided by: Bellev	ue College Continuing Education			
Description of element/course: Get the skills you need to get certified and work as a Linux systems engineer. This course is designed to give a good foundation towards passing the Linux Foundation Certified Engineer exam and advance your IT career in Linux.				
You'll learn:				
 How to desig How to adm The skills to How to secu How to deploy 	gn, deploy and maintain a network running under Lir inister the network services. create and operate a network in any major Linux dis irely configure the network interfaces. oy and configure file, web, email and name servers.	านx. stribution.		

Element/Course:	Linux for System Admin, LFS301	Planned Hours:	32	
Mode of Instruction	(check all that apply)			
🛛 Classroom	Lab 🛛 Online 🛛 Self-Study			
Provided by: Bellevue College Continuing Education				
Description of elem	ent/course:			
This beginner-level course gives you the skills and information you need to pass the LFCS exam				
and work as a profe	ssional Linux system administrator.			

In this course you'll learn:

- How to administer, configure and upgrade Linux systems running one of the three major Linux distribution families: Red Hat, SUSE, Debian/Ubuntu.
- How to master the tools and concepts you'll need to efficiently build and manage an enterprise Linux infrastructure.
- How to use state-of-the-art system administration techniques in real-life scenarios via practical labs.
- And more.

Element/Course:	Linux Performance Tuning, LFS426	Planned Hours:	32
Mode of Instruction	(check all that apply)		•
⊠ Classroom	Lab 🛛 Online 🛛 Self-Study		
Provided by: Bellev	ue College Continuing Education		
Description of elem	ent/course:		
This intermediate-le your Linux systems tested in the most of In this course, you'l	evel course is designed to give you all the tools and running at optimal levels. These techniques and too demanding high-performance computing environmer	techniques you need ols have been develop nts.	to keep bed and
 Indus The How Tracional And 	stry configuration best practices best tried-and-true optimization performance tuning to manually optimize the kernel's behavior ing, profiling and instrumentation techniques across more	tools and techniques a wide range of cond	itions

Element/Course:	Linux Security Fundamentals, LFS216	Planned Hours:	50
Mode of Instruction	(check all that apply)		•
🛛 Classroom	Lab 🛛 Online 🛛 Self-Study		
Provided by: Bellev	ue College Continuing Education		
Description of elem	ent/course:		
This course is a cor especially with the s securing Linux are l class explores man appliances are used is an encompassing preventative measu	mprehensive look at the security challenges that car seamless connectivity we seek from the Internet. Ma built in to either the Linux Kernel or added by the va y of these options to secure the systems. In some o d to demonstrate how one would interact with corpo g class experience that will further expand your awa ires.	n affect almost every s any of the features for rious Linux Distributio ases specialized Linu rate production server reness of security issu	system, ons. This x rs. This ues and
The class starts with everyone in the cha	h an overviews of Computer Security and touches on in of development, implementation, administration a	on how security affects and the end user.	6

Element/Course:	Linux Security, LFS416	Planned Hours:	32
Mode of Instruction (check all that apply)			

⊠ Classroom □ Lab ⊠ Online □ Self-Study

Provided by: Bellevue College Continuing Education

Description of element/course:

This intermediate level course is completely hands-on and adopts a highly technical approach to cover important security techniques and tools. By providing visibility both into attack vectors and possible security holes, this course provides you a complete guide on how to mitigate security risks in any Linux environment.

You'll learn:

- How to assess security risks in your enterprise Linux environment.
- The best techniques and tools to increase security.
- Server hardening
- How to deploy and use monitoring and attack detection tools.
- How to gain visibility into possible vulnerabilities.
- The art and science of developing your Linux security policy and response strategy.
- How to configure your systems for compliance with HIPAA, DISA STIG, etc.

Element/Course:	High Availability Linux Architecture, LFS422	Planned Hours:	32
Mode of Instruction	(check all that apply)		
🛛 Classroom	Lab 🛛 Online 🛛 Self-Study		
Provided by: Bellev	ue College Continuing Education		
Description of elem	ent/course:		
this course will tead	h you how to ensure that your servers stand up und	der even the most inte	ense
pressure.			
Developed for some	e of the largest Linux deployments in the world, this	course will teach you	:
 How to create 	ate and maintain systems that allow for highly-a	available application:	s.
The concept	ots and best practices used to meet security an	d high availability	

requirements using the latest hardware technologies.

• You'll also become familiar with tools that help you maintain and operate highlyavailable systems easily.



Teri Gardner 8-21-2020 ^{[By Evan Hamilton at 10:16 a} Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor				
ACTiV (Accelerated Career Training and Innovation)				
Skilled Occupational Objective				
Information Cybersecurity Analyst/Specialist				
Term/OJT Hours 2,000	Total RSI Hours 540			
Training Provider				
Bellevue College Continuing Education (Tombolo Institute)				

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.

Mark Meyer

Printed Name of Program Sponsor

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Signature of Program Sponsor

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- 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.

Albert Lewis Jr. Print Name Training Provider

VP, Economic & Workforce Development

Title of Training Provider

Signature of Training Provider

Bellevue College Organization of Training Provider

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

Additional Resources: <u>Apprenticeship Related Supplemental Instruction (RSI) Plan Review Glossary of Term (F100-519-000)</u> and <u>Apprenticeship Related Supplemental Instruction (RSI) Plan Review Criteria (F100-521-000)</u>.

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

 \square SBCTC recommends approval

 $\hfill\square$ SBCTC recommends return to sponsor

F100-520-000 Apprenticeship Related/Supplemental Instruction (RSI) Plan Review 06-2018

Additional Training Providers (if necessary)

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
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Program Sponsor:	Skilled Occupational Objective:
ACTiV (Accelerated Career Training and Innovation)	Information Cybersecurity Analyst/Specialist

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):

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

Element/Course: CompTIA A+	Planned Hours: 60	Hours	
Mode of Instruction (check all that apply)			
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study			
Provided by: Bellevue College Continuing Education			
Description of element/course:			
This course will provide an introduction to foundational IT skills across a variety of d	levices and operatir	ng	
systems. This course is a primer for the coursework to follow, including:			
Hardware			
Operating Systems			
Software Troubleshooting			
Networking			
 Hardware & network troubleshooting 			
Security			
Mobile devices			
 Virtualization & Cloud computing 			
Operational procedures			

Element/Course: CompTIA Network+	Planned Hours: 60 Hours
Mode of Instruction (check all that apply)	
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study	
Provided by: Bellevue College Continuing Education	
Description of element/course:	
This course will provide the essential skills needed to confidently design, configure,	manage and troubleshoot
any wired and wireless devices. This course will enable students to learn the follo	wing skills:
Networking concepts	
Infrastructure	
Network operations	
Network security	
 Network troubleshooting & tools 	

retwork troubleshooting α tools

CompTIA Linux+ Element/Course:

Mode of Instruction (check all that apply)

 \boxtimes Classroom \square Lab \boxtimes Online \square Self-Study

Provided by: Bellevue College Continuing Education

Description of element/course:

This course will provide the provide the competency for an early system administrator career in supporting Linux systems. This course will enable students to learn the following skills:

- Hardware & system configuration •
- System operation & maintenance •
- Security

Hours

Planned Hours: 60

- Linux troubleshooting and diagnostics Automation and scripting •
- •

	D1 111 (0	
Element/Course: CompTIA Server+	Planned Hours: 60	Hours
Mode of Instruction (check all that apply)		
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study		
Provided by: Bellevue College Continuing Education		
Description of element/course:		
This course will provide the technical knowledge and skills to perform a variety of	of tasks on server pl	atforms
in data centers or cloud computing. This course will enable students to learn the f	ollowing:	
Server architecture		
Server administration		
Storage		
Security		
Networking		
Disaster Recovery		
Troubleshooting		

Element/Course: CompTIA Cloud+	Planned Hours: 60	Hours
Mode of Instruction (check all that apply)		
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study		
Provided by: Bellevue College Continuing Education		
Description of element/course:		
This course will provide the knowledge and skills to securely implement, maintai	n and utilize cloud	
computing technologies. This course will enable students to learn the following skills:		
 Configurations and deployment 		
Cloud management		
Maintenance		
Security		
Troubleshooting		

Element/Course: CompTIA Security+	Planned Hours: 60	Hours
Mode of Instruction (check all that apply)		
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study		
Provided by: Bellevue College Continuing Education		
Description of element/course:		
This course will provide the knowledge and skills to perform core security function	on and apply best p	ractices
in IT network and operational security. This course will enable students to learn the	he following skills:	
 Threats, attacks & vulnerabilities 		
 Technologies and tools 		
Architecture & design		
 Identity & access management 		
Risk management		
 Cryptography & PKI 		

Element/Course:	CompTIA CyberSecurity Analyst+ (CySA+)	Planned Hours: 60	Hours
Mode of Instruction (check	all that apply)		
\boxtimes Classroom \square	Lab 🛛 Online 🗆 Self-Study		
Provided by: Bellev	ue College Continuing Education		

Description of element/course:

This course will provide the knowledge and skills to apply behavioral analytics to IT security in order to improve the state of IT security. This course will enable students to learn the following skills:

- Threat management
- Vulnerability management
- Security architecture and toolsets
- Cyber-incident response

Element/Course: CompTIA Penetration Testing+ (PenTest+)	Planned Hours: 60 Hours
Mode of Instruction (check all that apply)	
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study	
Provided by: Bellevue College Continuing Education	
Description of element/course:	
This course will provide the knowledge and skills in penetration testing to manage	e vulnerabilities on the IT
network. This course will enable students to learn the following skills in penetrati	on testing and vulnerability
management:	
 Planning and scoping 	
 Information gathering and vulnerability identification 	
Attacks and exploits	
Penetration testing tools	
Reporting and communications	

Element/Course: Basic Programming Essentials	Planned Hours: 30
Mode of Instruction (check all that apply)	
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study	
Provided by: Bellevue College Continuing Education	
Description of element/course:	
This course will provide the knowledge and skills in basic software and application	on programming. This
course will enable students to learn the following skills in programming:	
 Computer programming concepts and terminology 	
• Write simple computer programs using the basic coding structures	in C#
 Test and debug simple programs in Visual Studio (VS). 	

Element/Course: HTML and CSS Level 1	Planned Hours: 30	
Mode of Instruction (check all that apply)		
\boxtimes Classroom \square Lab \boxtimes Online \square Self-Study		
Provided by: Bellevue College Continuing Education		
Description of element/course:		
This course will provide the knowledge and skills in web programming using HT	ML and CSS. This course	
will enable students to learn to create the content of a webpage with text, images and hyperlinks using web		
technologies like HTML and CSS.		
This course will enable student to use the latest version of HTML and CSS to cre	ate the content of a webpage	
complete with text, images and hyperlinks. Then enhance the look and feel of we	bsites using cascading style	
sheets to modify page text and layout through hands-on practice in the classroom	. Students will be introduced	
to the current coding standards and how to make pages work in today's environm	ent. By the end of class	

students will be able to create and style a basic webpage.