

Auburn School District #408 Framework: Computer Systems Engineering 2

Course: Computer Installation and Repair Technology/Technician

Total Framework Hours: 90 Hours

CIP Code: 470104

Type: Preparatory

Career Cluster: Information Technology

Date Last Modified: Friday, April 15, 2016

Resources and Standard used in Framework Development:

Standards used for this framework are from the OSPI Model Framework for 470104 Computer Installation and Repair Technology/Technician

Unit 5 STORAGE

Hours: 10

Performance Assessment(s):

Testout LabSim PC Pro Unit 5 Exams
Testout LabSim PC Pro Unit 5 Lab Simulations
Testout LabSim PC Pro Unit 5 Final Assessment

Leadership Alignment:

SkillsUSA Computer Maintenance and Technology:
CMT 1.0 - Perform maintenance on personal computers and computer components
CMT 8.0 - Display communication and professionalism while working in computer maintenance technology
SkillsUSA Committee Identified Academic Skills:
Language Arts Skills:
- Organize and synthesize information for use in written and oral presentations
- Demonstrate knowledge of appropriate reference materials
1.A.3 Elaborate, refine, analyze and evaluate their own ideas in order to improve and maximize creative efforts
8.A.3 Utilize time and manage workload efficiently

Standards and Competencies

Standard: General and Computer Safety
Standard: Computer Hardware
Standard: Computer Troubleshooting, Repair and Maintenance
Standard: Hardware: Operation System Technology
Standard WR 2: Personal Success
Standard WR 4: Problem Solving
Standard WR 5: Health and Safety

Aligned to Washington State Standards

Arts

Communication - Speaking and Listening

Health and Fitness

Language

Mathematics

Reading

CC: Reading Informational Text

Science

Social Studies

Writing

CC: Writing for Literacy in History/Social Studies, Science, and Technical Subjects (9-10)

CC: Writing for Literacy in History/Social Studies, Science, and Technical Subjects (11-12)

21st Century Skills

LEARNING AND INNOVATION

Creativity and Innovation

- Think Creatively
- Work Creatively with Others
- Implement Innovations

Creative Thinking and Problem Solving

- Reason Effectively
- Use Systems Thinking
- Make Judgements and Decisions
- Solve Problems

Communication and Collaboration

- Communicate Clearly
- Collaborate with Others

INFORMATION, MEDIA AND TECHNOLOGY SKILLS

Information Literacy

- Access and Evaluate Information
- Use and Manage Information

Media Literacy

- Analyze Media
- Create Media Products

Information, Communications, and Technology (ICT Literacy)

- Apply Technology Effectively

LIFE AND CAREER SKILLS

Flexibility and Adaptability

- Adapt to Change
- Be Flexible

Initiative and Self-Direction

- Manage Goals and Time
- Work Independently
- Be Self-Directed Learners

Social and Cross-Cultural

- Interact Effectively with Others
- Work Effectively in Diverse Teams

Productivity and Accountability

- Manage Projects
- Produce Results

Leadership and Responsibility

- Guide and Lead Others
- Be Responsible to Others

Performance Assessment(s):

Testout LabSim PC Pro Unit 6 Exams
Testout LabSim PC Pro Unit 6 Lab Simulations
Testout LabSim PC Pro Unit 6 Final Assessment

Leadership Alignment:

SkillsUSA Computer Maintenance and Technology:
CMT 1.0 - Perform maintenance on personal computers and computer components
CMT 8.0 - Display communication and professionalism while working in computer maintenance technology
SkillsUSA Committee Identified Academic Skills:
Language Arts Skills:
- Organize and synthesize information for use in written and oral presentations
- Demonstrate knowledge of appropriate reference materials
Communicate Clearly
3.A.1 Articulate thoughts and ideas effectively using oral, written and nonverbal communication skills in a variety of forms and contexts
Be Responsible to Others
11.B.1 Act responsibly with the interests of the larger community in mind

Standards and Competencies

Standard: Networking
Standard: Network Media and Topologies
Standard: Network tools
Standard WR 2: Personal Success
Standard WR 4: Problem Solving
Standard WR 5: Health and Safety

Aligned to Washington State Standards**Arts****Communication - Speaking and Listening****Health and Fitness****Language****Mathematics****Reading**

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Productivity and Accountability

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Unit 7 PRINTING**Hours: 10****Performance Assessment(s):**

Testout LabSim PC Pro Unit 7 Exams
Testout LabSim PC Pro Unit 7 Lab Simulations
Testout LabSim PC Pro Unit 7 Final Assessment

Leadership Alignment:

SkillsUSA Computer Maintenance and Technology:
CMT 1.0 - Perform maintenance on personal computers and computer components
CMT 8.0 - Display communication and professionalism while working in computer maintenance technology
SkillsUSA Committee Identified Academic Skills:
Language Arts Skills:
- Organize and synthesize information for use in written and oral presentations
- Demonstrate knowledge of appropriate reference materials
Reason Effectively
2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation
8.A.2 Balance tactical (short-term) and strategic (long-term) goals

Standards and Competencies

Standard: General and Computer Safety
Standard: Computer Hardware
Standard: Computer Troubleshooting, Repair and Maintenance
Standard: Network Devices
Standard WR 2: Personal Success
Standard WR 4: Problem Solving
Standard WR 5: Health and Safety

Aligned to Washington State Standards**Arts****Communication - Speaking and Listening****Health and Fitness****Language****Mathematics****Reading**

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LEARNING AND INNOVATION

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Creative Thinking and Problem Solving

- Reason Effectively
- Use Systems Thinking
- Make Judgements and Decisions
- Solve Problems

Communication and Collaboration

- Communicate Clearly
- Collaborate with Others

INFORMATION, MEDIA AND TECHNOLOGY SKILLS

Information Literacy

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Media Literacy

- Analyze Media
- Create Media Products

Information, Communications, and Technology (ICT Literacy)

- Apply Technology Effectively

LIFE AND CAREER SKILLS

Flexibility and Adaptability

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Initiative and Self-Direction

- Manage Goals and Time
- Work Independently
- Be Self-Directed Learners

Social and Cross-Cultural

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Productivity and Accountability

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Unit 8 WINDOWS SYSTEM MANAGEMENT**Hours: 15****Performance Assessment(s):**

Testout LabSim PC Pro Unit 8 Exams
Testout LabSim PC Pro Unit 8 Lab Simulations
Testout LabSim PC Pro Unit 8 Final Assessment

Leadership Alignment:

SkillsUSA Computer Maintenance and Technology:
CMT 1.0 - Perform maintenance on personal computers and computer components
CMT 8.0 - Display communication and professionalism while working in computer maintenance technology
SkillsUSA Committee Identified Academic Skills:
Language Arts Skills:
- Organize and synthesize information for use in written and oral presentations
- Demonstrate knowledge of appropriate reference materials
2.D.2 Identify and ask significant questions that clarify various points of view and lead to better solutions
Apply Technology Effectively
6.A.1 Use technology as a tool to research, organize, evaluate and communicate information

Standards and Competencies

Standard: General and Computer Safety
Standard: Computer Operating Systems and Software
Standard WR 2: Personal Success
Standard WR 4: Problem Solving
Standard WR 5: Health and Safety

Aligned to Washington State Standards**Arts****Communication - Speaking and Listening****Health and Fitness****Language****Mathematics****Reading**

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Unit 9 SECURITY**Hours: 10****Performance Assessment(s):**

Testout LabSim PC Pro Unit 9 Exams
Testout LabSim PC Pro Unit 9 Lab Simulations
Testout LabSim PC Pro Unit 9 Final Assessment

Leadership Alignment:

SkillsUSA Computer Maintenance and Technology:
CMT 1.0 - Perform maintenance on personal computers and computer components
CMT 8.0 - Display communication and professionalism while working in computer maintenance technology
SkillsUSA Committee Identified Academic Skills:
Language Arts Skills:
- Organize and synthesize information for use in written and oral presentations
- Demonstrate knowledge of appropriate reference materials
2.C.5 Reflect critically on learning experiences and processes
Manage Projects
10.A.1 Set and meet goals, even in the face of obstacles and competing pressures

Standards and Competencies

Standard: General and Computer Safety
Standard: Network Security
Standard: Operating Systems - Security
Standard WR 2: Personal Success
Standard WR 4: Problem Solving
Standard WR 5: Health and Safety

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Performance Assessment(s):

Testout LabSim PC Pro Unit 10 Exams
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 Testout LabSim PC Pro Unit 10 Final Assessment
 PC Pro Certificaton Exam

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 - Demonstrate knowledge of appropriate reference materials
 1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes
 Use and Manage Information
 4.B.1 Use information accurately and creatively for the issue or problem at hand

Standards and Competencies

Standard: General and Computer Safety
 Standard: Computer Hardware
 Standard: Computer Troubleshooting, Repair and Maintenance
 Standard: Computer Operating Systems and Software
 Standard: Networking
 Standard: Hardware: Operation System Technology
 Standard: Network Devices
 Standard WR 2: Personal Success
 Standard WR 4: Problem Solving
 Standard WR 5: Health and Safety
 Standard WR 6: Teamwork and Cooperation

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