LFCC
Lord Fairfax Community College

K2W Information Systems Technology AAS Template LF298.InfoSystemsTech.Template.K2W   ▾   Software Design   Edit Mode is: ON

Software Design ⌄

- K2W Information Systems Technology AAS Template (LF298.InfoSystemsTech.Template.K2W)
- Program Information ⌄
- K2W Support Team ⌄
- IT Professions ⌄
- Web Page Design ⌄
- Database Fundamentals ⌄
- Network Concepts ⌄
- Principles of IS ⌄
- Microcomputer OS ⌄
- Software Design ⌄
- Systems Analysis ⌄
- Weekly Interaction
- Competency Progress ⌄
- K2W Website ⌄
- LFCC Help & Support ⌄
- Library Help ⌄

Course Management

▾ **Control Panel**

▸ My Files ⊙
▸ Course Tools
▸ Evaluation ⊙
▸ Grade Center ⊙
▸ Users and Groups
▸ Customization ⊙
▸ Packages and Utilities ⊙
▸ Help

✖ Quick Unenroll

Build Content ⌄   Assessments ⌄   Tools ⌄   Partner Content ⌄   Discover Content

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Introduction and Procedures

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This topic area will demonstrate competency in software principles and practices of software develop through the areas of critical thinking, problem solving, essential programming logic, structured design, object-oriented design, and modern software design tools.

A student must achieve a minimum of 80% of the total points allowed for this competency. That equates to 232 points out of 290 points.

Completion of the following tasks are required:

1. **Software Design Competency Assessment Tasks** (This is a folder containing several programming tasks and quizzes. The student gets two attempts to achieve the required score on each task or quiz..)
2. **Software Design Competency Comprehensive Exam Assessment** (This assessment contains the specifics for a software design project)

Furthermore, in order to assist the student, Digital resources are provided as learning tools to enhance the student's knowledge as preparation for accomplishing any of these tasks.

Required Competencies to Achieve

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- Demonstrate the techniques of defensive programming and secure coding.
- Use a programming or a scripting language to solve a problem.
- Use communication, negotiation, and collaboration skills as a member of a diverse team.
- Use documentation or a knowledge base to resolve a technical challenge in an identified computing scenario.

Digital Learning Resources

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These learning resources will help you learn the competencies for Software Design

This folder contains digital learning resources that cover the competency areas.

- It is recommended that the learner review this information prior to taking the two assessments.
- If a score of at least 80% is not earned on both assessments and the addressing assignment, the learner should review this material before attempting the assessment again

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Software Design Competency Assessment Tasks

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Folder contains various quizzes and activities to perform.

Software Design Comprehensive Exam Assessment

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Attached Files: 📄 Programming project.pdf (429.645 KB)

Programming Project You may use Alice attached but you must install it. Look under Digital resources for Alice software, installation instructions, and some training. You can research the Internet to find out how ti use Alice. I do not furnish VB here since it is license. You may use your own license or look for a computer that has that software. Max 100 points (80% is 80 points.)

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