Building an Autonomous Search and Rescue Craft

Rubric

| **Knowledge and Understanding** | **Level 1**  **50-59%** | **Level 2**  **60-69%** | **Level 3**  **70-79%** | **Level 4**  **80-100%** |
| --- | --- | --- | --- | --- |
| Knowledge of Task (how task is performed) | Student demonstrates limited knowledge of task | Student demonstrates some knowledge of task | Student demonstrates considerable knowledge of task | Student demonstrates thorough knowledge of task |
| Understanding of task (why task is required) | Student demonstrates limited understanding of task | Student demonstrates some understanding of task | Student demonstrates considerable understanding of task | Student demonstrates through understanding of task |

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| **Thinking and Inquiry** | **Level 1**  **50-59%** | **Level 2**  **60-69%** | **Level 3**  **70-79%** | **Level 4**  **80-100%** |
| --- | --- | --- | --- | --- |
| Use of critical thinking and problem solving | Student rarely identifies problems and formulates solutions | Student sometimes identifies problems and formulates solutions | Student usually identifies problems and formulates solutions | Student always identifies problems and formulates solutions |
| Use of planning skills | Student is able to plan build with limited effectiveness | Student is able to plan build with some effectiveness | Student is able to plan build with considerable effectiveness | Student is able to plan build with thorough effectiveness |

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| **Communication** | **Level 1**  **50-59%** | **Level 2**  **60-69%** | **Level 3**  **70-79%** | **Level 4**  **80-100%** |
| --- | --- | --- | --- | --- |
| Technical literacy (use of correct terminology) | Student uses technical terminology with limited effectiveness | Student uses technical terminology with some effectiveness | Student uses technical terminology with considerable effectiveness | Student uses technical terminology with a high degree of effectiveness |
| Organization of ideas and information (clear expression and logical organization) | Student expresses and organizes ideas with limited effectiveness | Student expresses and organizes ideas with some effectiveness | Student expresses and organizes ideas with considerable effectiveness | Student expresses and organizes ideas with a high degree of effectiveness |

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| **Application** | **Level 1**  **50-59%** | **Level 2**  **60-69%** | **Level 3**  **70-79%** | **Level 4**  **80-100%** |
| --- | --- | --- | --- | --- |
| Application of knowledge and skills | Student applies knowledge and skills with limited effectiveness | Student applies knowledge and skills with some effectiveness | Student applies knowledge and skills with considerable effectiveness | Student applies knowledge and skills with a high degree of effectiveness |
| Use of equipment, tools, and technology | Student rarely uses tools and equipment properly | Student sometimes uses tools and equipment properly | Student usually uses tools and equipment properly | Student always uses tools and equipment properly |
| Shop routine and practices | Student rarely maintains a clean, organized, and safe workspace | Student sometimes maintains a clean, organized, and safe workspace | Student usually maintains a clean, organized, and safe workspace | Student always maintains a clean, organized, and safe workspace |
| Effectiveness and accuracy of project build | Project way built with limited accuracy | Project way built with some accuracy | Project way built with considerable accuracy | Project way built with a high degree of accuracy |

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