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| **Framework Title:** Career Cluster Skills (CS).10-.11 |
| **CIP Code:**  | **Total Framework Hours up to:**  |
| **Course: CS.10-.11 Level 1,2, and 3** |  **Exploratory Preparatory**  |
| **Career Cluster: AFNR Cluster Pathway: CS .10-.11 Date Last Modified:**  |
| **Pathway Content Standard:** |
| **Performance Assessments** |
| **CS.10. Performance Element: Technical Skills: Envision emerging technology and globalization to project its influence on widespread markets.** |
| ***STANDARDS AND PERFORMANCE INDICATORS*** |
| **CS.10.01. Performance Indicator:** Examine new technologies to project their impact in the global market of AFNR. **Sc F6****CS.10.02. Performance Indicator:** Relate technology advancements to the need for Continuing Education/Career Development.  |
| **Level I=Basic Level II=Core Level III=Advanced**  | Standards |
| **Level I, II, III** | **Performance Indicators** |  |
| **CS.10.01.01.a.** | Apply the use of various scientific measurement and conversions to AFNR systems. Level I |  |
| **CS.10.01.01.b.** | Discuss the use of mechatronics (such as lasers and robotics) and their impact on AFNR systems. Level II |  |
| **CS.10.01.01.c.** | Evaluate the importance of new and emerging communication systems and how they impact AFNR systems. Level III |  |
| **CS.10.02.01.a.** | Utilize historical data, technology and career training to predict market trends. Level I  |  |
| **CS.10.02.01.b.** | Apply emerging technology and career training to meet market demands. Level II |  |
| **CS.10.02.01.c.** | Research emerging technologies and the opportunities they may create within the AFNR systems. Level III |  |

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| **Performance Assessments** |
| **CS.11. Performance Element: Scientific Inquiry: Utilize scientific inquiry as an investigative method.** |
| ***STANDARDS AND PERFORMANCE INDICATORS*** |
| **CS.11.01. Performance Indicator:** Recognize the questions and theory needed to guide scientific investigations. **M 6C, Sc A1 and A2****CS.11.02. Performance Indicator:** Design and conduct a scientific investigation. **M 6C, Sc A1 and A2, LA 7** |
| **Level I=Basic Level II=Core Level III=Advanced**  | Standards |
| **Level I, II, III** | **Performance Indicators** |  |
| **CS.11.01.01.a.** | Formulate a testable hypothesis. Level I |  |
| **CS.11.01.01.b.** | Design an experiment to test a hypothesis. Level II |  |
| **CS.11.01.01.c.** | Demonstrate procedures and a conceptual understanding of scientific investigation. Level III |  |
| **CS.11.02.01.a.** | Design an experiment or scientific inquiry for a specific project. Level I |  |
| **CS.11.02.01.b.** | Implement an experimental design to test a formulated hypothesis. Level II |  |
| **CS.11.02.01.c.** | Propose additional studies based on the results of an experiment. Level III |  |