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| Student Name:  Student ID:   Program:  Credential: | **OSS Only**  Credential Analyst:  Date Reviewed: |

**Industrial and Technology Education**

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| **CSET Subtest Number** | **Domain** | **Description** | | | | | | | |
| **I** | **1. Nature of Technology** | Candidates understand technology as a problem-solving process and know the history and evolution of technology. They understand that technology involves creativity and innovation and are able to use concepts from the core content areas of science, mathematics, social science, and language arts as well as other content areas commonly taught in California public schools to design solutions to problems. Candidates understand the social aspect of technology and analyze the positive and negative effects of technologies on society and the environment. They understand the skills, knowledge, attitudes, and commitment to lifelong learning necessary to develop technological literacy and apply this knowledge in a rapidly changing global environment. | | | | | | | |
| **Course Alpha(s) & Number(s)** | **Course Titles(s)** | | **Institutions(s)** | | | **Catalog Link(s)** | **Final Grade(s)** | | **Meets Domain (OSS only)** |
|  |  | |  | | |  |  | | Yes  No |
| **Course Description(s):** | | | | | | | | |
| **II** | **2. Power and Energy** | Candidates demonstrate an understanding of the fundamental scientific concepts of power and energy and how these concepts apply to mechanical, fluid, thermal, and electrical systems. Candidates understand the generation, transmission, storage, and control of power and energy and apply this knowledge to design, maintain, and analyze a variety of power and energy technologies, including transportation technologies. | | | | | | | |
| **Course Alpha(s) & Number(s)** | **Course Titles(s)** | | **Institutions(s)** | | **Catalog Link(s)** | | | **Final Grade(s)** | **Meets Domain (OSS only)** |
|  |  | |  | |  | | |  | Yes  No |
| **Course Description(s):** | | | | | | | | |
| **II** | **3. Information and Communication** | Candidates demonstrate an understanding of the knowledge and skills needed to design, analyze, use, and maintain a variety of communication systems. They demonstrate an understanding of how information systems encode, transmit, receive, decode, and store data. Candidates understand principles of graphic communication and use appropriate graphic tools to communicate visually. They apply knowledge of circuits and their components to electronic communication systems. | | | | | | | |
| **Course Alpha(s) & Number(s)** | **Course Titles(s)** | | | **Institutions(s)** | | **Catalog Link(s)** | | **Final Grade(s)** | **Meets Domain (OSS only)** |
|  |  | | |  | |  | |  | Yes  No |
| **Course Description(s):** | | | | | | | | |
| **II** | **4. Project and Product Development** | Candidates demonstrate an understanding of product development and how to plan, manage, and produce manufacturing and construction systems. Candidates understand the resources and processes needed to safely use a variety of processes to design, produce, maintain, and evaluate products. Candidates demonstrate an understanding of the requirements and constraints in the engineering design process and the systems approach to manufacturing and construction enterprises. Candidates understand issues associated with quality management and quality control, including statistical tools. | | | | | | | |
| **Course Alpha(s) & Number(s)** | **Course Titles(s)** | | | **Institutions(s)** | | **Catalog Link(s)** | | **Final Grade(s)** | **Meets Domain (OSS only)** |
|  |  | | |  | |  | |  | Yes  No |
| **Course Description(s):** | | | | | | | | |

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| **OSS Only:**  Subtest I met through coursework: Yes   No  Subtest II met through coursework: Yes   No |
| **OSS Notes:** |