Oregon CTE

Arts, Information and Communication: Design

Use basic methods of data collection and analysis to provide information for projects. ARDS01	1 **Access research methods available to formulate project planning and problem solving.** ARDS01.01.01 2 **Provide appropriate precedents for development of a project.** ARDS01.02.01
Understand the role of clients in the design process. ARDS02	1 **Understand customer requirements.** ARDS02.01.01 2 **Interpret and evaluate requirements.** ARDS02.01.02 3 **Define scope of work to meet customer requirements.** ARDS02.01.03 4 **Prepare functional specifications to meet customer requirements.** ARDS02.01.04 5 **Prepare visual design specifications to meet customer requirements.** ARDS02.01.05 6 **Create a customer presentation.** ARDS02.01.06
Understand, plan for, and implement traditional project phases. ARDS03	1 **Understand and implement the programming components of design.** ARDS03.01.01 2 **Understand and implement the planning components of design.** ARDS03.01.02 3 **Understand and implement the product design components.** ARDS03.01.03 4 **Understand and implement the presentation components of the design process.** ARDS03.01.04
Appreciate and apply design requirements/elements for the diversity of needs, values, and social patterns in project design. ARDS04	1 **Understand how design is impacted by needs, values, social patterns, and preferences.** ARDS04.01.01 2 **Understand the basic principles of the environmental impact of a design project.** ARDS04.01.02 3 **Evaluate and align sustainable design elements to add value to the project.** ARDS04.01.03

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	4 Apply design requirements to accommodate people with varying physical disabilities. ARDS04.01.04
Understand principles of fabrication/manufacturing and use of materials, components, and assemblies, and incorporate them into project design. ARDS05	1 Understand the characteristics and properties of materials and components used in design. ARDS05.01.01
	2 Understand the fabrication/manufacturing processes. ARDS05.01.02
	3 Understand the standards and regulations used in fabrication or manufacturing of products being designed. ARDS05.01.03
	4 Understand the restrictions that fabrication or manufacturing impose on the design. ARDS05.01.04
	5 Incorporate principles, standards and restrictions of fabrication and manufacturing and use of materials, components and assemblies into the project design. ARDS05.01.05
Analyze and use the elements and principles of design. ARDS06.01.01	1 Understand the elements of design including space, line, balance, color, shape, texture, form, unity and value. ARDS06
	2 Understand the principles of design including harmony, contrast, repetition, variety, emphasis, proportion, functionality, proximity, and color theory. ARDS06.02.01
	3 Understand color symbolism, perception and psychology. ARDS06.03.01
	4 Understand the concepts of visual perception. ARDS06.04.01
	5 Use appropriate material or combinations of material and components to satisfy the requirements of the customer. ARDS06.05.01
	6 Use the elements and principles of design to create designs using various materials and techniques. ARDS06.06.01
Understand and use appropriate software for the purposes of design. ARDS07	1 Know available design software and its intended purpose. ARDS07.01.01
	2 Select appropriate software. ARDS07.01.02
Understand three-dimensional art forms. ARDS08	1 Understand the basic elements of three-dimensional art forms. ARDS08.01.01
	2 Design three-dimensional art forms. ARDS08.01.02