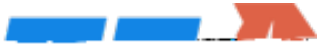


Approved Innovative Courses

- Districts have local board approval to implement innovative courses
- Innovative courses may meet the elective credit only
- CTE Innovative courses may not be the final course in a coherent sequence for an endorsement
- Course elements may be met through modification

commercial, and residential networks and how to terminate, test, troubleshoot, and



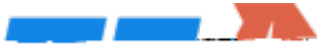
Approved Innovate Cos

*That the local board approval to implement
innovate cos
Innovate cos may meet the election only
CTE Innovate cos may not be the final cos in a
coherence for an endorsement
Cos elements may be modified*

- (B) demonstrate hand, power, and pneumatic tool safety;
 - (C) follow safety procedures when working from heights such as from a ladder, scaffolding, aerial work platform, and boom-trucks;
 - (D) discuss confined space safety procedures;
 - (E) interpret Hazard Communication (HazCom) standard requirements including (MSDS); and
 - (F) summarize ergonomic principles and safe material handling practices.
- (7) The student evaluates and analyses different wireless technologies and architectures. The student is expected to:
- (A) evaluate the effectiveness of wireless technologies and how they compare to structured wiring systems;
 - (B) apply wireless system standards and vocabulary appropriately;
 - (C) explain how communication systems use wireless technology;
 - (D) analyze the wiring typologies in a telecommunication system;
 - (E) evaluate the configuration software used to setup a wireless system;
 - (F) analyze the design, layout and implementation of wireless data systems and its components, including wireless access points, cameras, and over the air video; and
 - (G) demonstrate the use of wireless technologies in a network environment.

Approved Innovative Costs

- Districts may elect to implement innovative costs
- Innovative costs may be elected only
-



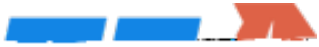
Approved Innovative Courses

- Districts may not be required to implement innovative courses
- Innovative courses may meet the elective credit only
- CTE Innovative courses may not be the final course in a coherent sequence for an endorsement
- Course elements may be modified

- (A) evaluate communications system requirements based on industry recognized loss budget allowances;
 - (B) design and lay out a cable plant that is in accordance to industry standards;
 - (C) determine the proper components for the plant design;
 - (D) analyze the loss of power budget of the plant design; and
 - (E) document the proposed plant design.
- (14) The student examines the ethics and legal parameters in the telecommunication industry and understands that workers must abide by local, state, and federal laws. The student is expected to:
- (A) analyze ethical standards in the telecommunications field;
 - (B) describe telecommunications organizational policies and procedures;
 - (C) distinguish between ethical and unethical business practices; and
 - (D) contrast ethical, moral, and legal choices that relate to the decision-making process in business situations.

Description of specific student needs this course is designed to meet

With only 11% of Texas households and commercial buildings connected to fiber, Texas ranks 46th in the country with one of the lowest number of connected buildings. In opposition, the fiber optic infrastructure is at the core of advanced manufacturing, telemedicine, finance, e-commerce, social media, gaming, and cloud-based applications. Fiber is also used in other industries that are foundational to Texas, which includes process control of oil and gas, wind turbines, and data centers. As a consumer of these services, 21st century learners are uniquely qualified and, therefore, can directly relate to these cutting-



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Major sources and materials

Fiber Optic Association (<http://www.foa.org/>)

Text Books:

