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>> Civil-Engineering-Technology資格認定 <<

Civil-Engineering-Technology試験の準備方法 | 高品質なCivil-Engineering-Technology資格認定試験 | ハイパスレートのTechnical Examination - Civil Engineering Technology C.E.T日本語版参考資料

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CTTAM Technical Examination - Civil Engineering Technology C.E.T 認定 Civil-Engineering-Technology 試験問題 (Q89-Q94):

質問 # 89

A civil engineering technologist has been tasked with collecting topographical data on a work site. After arriving at the site, and before conducting any field work, what must the technologist do?

- A. Complete a walk-around inspection of the vehicle.
- B. Set up the base unit.
- **C. Complete a hazard assessment.**
- D. Search for applicable survey plans.

正解: C

解説:

Before any field activity begins, the technologist must ensure the work can be performed safely by completing a hazard assessment (often called a job hazard analysis / activity hazard analysis). Construction safety standards require identifying hazards (traffic, equipment interaction, uneven ground, overhead utilities, excavations, wildlife, weather, restricted zones), selecting controls (PPE, traffic control, spotters, exclusion zones), and confirming site rules and emergency procedures. EM 385-1-1 emphasizes hazard identification and pre-task planning as prerequisites to safe execution of site activities, including inspection and survey work. Setting up equipment or searching for plans does not address immediate on-site hazards, and a vehicle walk-around may be good practice but does not replace the required task/site hazard assessment. Therefore, the correct "must do" action before field work is to complete a hazard assessment.

質問 # 90

A subcontractor is completing surface rehabilitation in a mature community. What are the minimum requirements for quality that must be met?

- A. Warranty agreement specifications
- B. Subcontractor's paving specifications
- C. Municipality specifications
- D. Developer insurance requirements

正解: C

解説:

In municipal surface rehabilitation, the governing minimum quality requirements are set by the municipality's standards/specifications, because the work interfaces with, affects, and is often handed over to municipal infrastructure (roads, sidewalks, utilities, drainage). Municipal specifications define accepted materials, compaction/density requirements, asphalt/concrete placement tolerances, testing frequency, restoration details, and acceptance criteria. Contractor or subcontractor internal specs may exceed municipal requirements, and warranties/insurance address risk allocation, but they do not replace the owner/authority's technical acceptance standards. In civil engineering practice, "specifications" are the formal technical requirements that the delivered system must meet (minimum/maximum/range), including items like minimum density of roadbed, tolerances, and material performance—these are typically established by the owning agency (here, the municipality) for public infrastructure assets. Thus, the minimum quality threshold is defined by the municipality specifications.

質問 # 91

What does a system curve illustrate?

- A. The total head loss in a system of pipes as related to total flow
- B. The total length of the water mains as related to the water main diameter
- C. The total flow as related to time
- D. The minimum radius at which a car can safely travel at 50 km/h

正解: A

解説:

Comprehensive and Detailed 150 to 200 words of Engineering documents and resources:

In pumped/pressurized pipe systems, the system curve represents the hydraulic requirement of the piping network: the relationship between flow rate (Q) and the head required to overcome elevation differences and losses. As flow increases, friction and minor losses rise (often approximately with Q^2 in turbulent flow regimes), so the system's required head increases with Q . This curve is used with a pump curve to find the operating point where pump head equals system head at a given flow. Standard civil engineering hydraulics references define head loss as a function of flow through friction and fittings, and system behavior is expressed by total head (static + losses) versus flow, which is exactly what the system curve shows.

Therefore, the system curve illustrates total head loss (and required head) in the pipe system as a function of total flow, matching option C.

質問 # 92

What type of concrete structural element is shown in the image below?

- A. Cast in place
- B. Precast
- C. Prestressed
- **D. Post-tensioned**

正解: D

質問 # 93

A civil engineering technologist is designing a sanitary collection system that is being constructed below the groundwater table. The owner requested that the system be pressure tested in order to minimize the infiltration into the collection system. Which of the following would be a major design consideration for the collection system?

- A. Pipe material
- B. Manhole material
- **C. Manhole type**
- D. Pipe diameter

正解: C

解説:

When sanitary infrastructure is installed below the groundwater table, a primary risk is infiltration- groundwater entering the system through joints, defects, and especially appurtenances. Even if pipe joints are specified as watertight and pipes can pass leakage testing, manholes are frequent infiltration pathways due to multiple penetrations (service connections), interfaces (frame-to-cone), and exposure to groundwater head.

Civil engineering references identify infiltration/inflow sources that include "holes in manhole covers" and other manhole-related entry paths, highlighting that manholes are critical control points in sanitary systems.

Therefore, a major design consideration- particularly whessure/leakage testing to reduce infiltration- is specifying a watertight manhole type (e.g., gasketed/booted connections, sealed sections, appropriate access components) suitable for submerged conditions. Pipe diameter primarily affects hydraulic capacity, and "manhole material" alone does not fully address leakage performance unless paired with watertight design features. The best answer is manhole type.

質問 # 94

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