

## Traccia 2

La programmazione degli acquisti di beni e servizi

Il candidato esponga quali siano gli elementi che il progettista deve valutare per l'analisi dei carichi di una ponte

Con riferimento al D.Lgs. 81/08, il candidato esponga quali sono gli obblighi del Coordinatore per la Sicurezza in fase di Esecuzione.

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### Architecture (from: <https://en.wikipedia.org/>)

Architecture is the art and technique of designing and building, as distinguished from the skills associated with construction. It is both the process and the product of sketching, conceiving, planning, designing, and constructing buildings or other structures. (...) Architectural works, in the material form of buildings, are often perceived as cultural symbols and as works of art. The practice, which began in the prehistoric era, has been used as a way of expressing culture by civilizations on all seven continents. For this reason, architecture is considered to be a form of art. The practice, which began in the prehistoric era, has been used as a way of expressing culture by civilizations on all seven continents.

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Il candidato disegni la seguente figura bidimensionale geometrica: un rettangolo di dimensione 20 x 12 u.m. e le relative diagonali. Provveda a riempire tutta la figura con quattro retini a scelta uno per ogni settore.

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Best

Lucini

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# Traccia 5

Le procedure di scelta del contraente

Il candidato illustri le tipologie di barriere di protezione laterale in una stradale

Con riferimento al D.Lgs. 81/08, il candidato descriva il significato e la differenza tra oneri e costi della sicurezza.

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## Chemistry (from: <https://en.wikipedia.org/>)

Chemistry is the scientific study of the properties and behavior of matter. It is a physical science within the natural sciences that studies the chemical elements that make up matter and compounds made of atoms, molecules and ions: their composition, structure, properties, behavior and the changes they undergo during reactions with other substances. Chemistry also addresses the nature of chemical bonds in chemical compounds. For example, chemistry explains aspects of plant growth (botany), the formation of igneous rocks (geology), how atmospheric ozone is formed and how environmental pollutants are degraded (ecology), the properties of the soil on the moon (cosmochemistry), how medications work (pharmacology)...

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Il candidato disegni la seguente figura bidimensionale geometrica: un triangolo scaleno di dimensioni rispettivamente pari a 15, 12 e 7 u.m.. e le relative altezze.

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# Traccia 6

Il collaudo

La classificazione delle strade, secondo il Codice della Strada

Con riferimento al D.Lgs. 81/08, il candidato descriva i sistemi di protezione contro la caduta dall'alto.

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## Biology (from: <https://en.wikipedia.org/>)

Biology is the scientific study of life. It is a natural science with a broad scope but has several unifying themes that tie it together as a single, coherent field. For instance, all organisms are made up of cells that process hereditary information encoded in genes, which can be transmitted to future generations. Another major theme is evolution, which explains the unity and diversity of life. Energy processing is also important to life as it allows organisms to move, grow, and reproduce. Finally, all organisms are able to regulate their own internal environments. Biologists are able to study life at multiple levels of organization, from the molecular biology of a cell to the anatomy and physiology of plants and animals, and evolution of populations.

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Il candidato disegni la seguente figura bidimensionale geometrica: un triangolo scaleno di dimensioni rispettivamente pari a 20, 15 e 8 u.m.. e le relative altezze.

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# Traccia 9

La modifica dei contratti in corso di esecuzione

Il candidato esponga quali siano gli elementi da ispezionare su un ponte in muratura di una campata per compilare le schede di livello 1

Con riferimento al D.Lgs. 81/08, il candidato descriva i sistemi di ponteggi mobili, fissi e movibili.

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## Philosophy (from: <https://en.wikipedia.org/>)

Philosophy (love of wisdom in ancient Greek) is a systematic study of general and fundamental questions concerning topics like existence, reason, knowledge, value, mind, and language. (...) Historically, many of the individual sciences, such as physics and psychology, formed part of philosophy. (...) Major branches of philosophy are epistemology, ethics, logic, and metaphysics. Other subfields are aesthetics, philosophy of language, philosophy of mind, philosophy of religion, philosophy of science, philosophy of mathematics, philosophy of history, and political philosophy. Within each branch, there are competing schools of philosophy that promote different principles, theories, or methods.

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Il candidato disegni la seguente figura bidimensionale geometrica: un quadrato di lato 8 u.m. con un cerchio circoscritto. Provveda a riempire i settori circolari con un retino a scelta.

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# Traccia 12

La qualificazione delle imprese

Il candidato illustri gli elementi geometrici dell'andamento altimetrico di una strada e quali sono i fattori di cui tenere conto per la redazione

Con riferimento al D.P.R. 327/2001, il candidato illustri il significato di vincolo preordinato all'esproprio.

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## Botany (from: <https://en.wikipedia.org/>)

Botany, also called plant science (...), is the science of plant life and a branch of biology. A botanist, plant scientist (...) is a scientist who specialises in this field. (...) Traditionally, botany has also included the study of fungi and algae by mycologists and phycologists respectively, with the study of these three groups of organisms remaining within the sphere of interest of the International Botanical Congress. (...) Botany originated in prehistory as herbalism with the efforts of early humans to identify – and later cultivate – plants that were edible, poisonous, and possibly medicinal, making it one of the first endeavours of human investigation. Medieval physic gardens, often attached to monasteries, contained plants possibly having medicinal benefit.

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Il candidato disegni la seguente figura bidimensionale geometrica: un pentagono di lato 15 u.m. Provveda a riempire la figura con un retino a scelta.

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# Traccia 13

L'appalto integrato

Il candidato illustri le distanze di cui tenere conto per la progettazione di una strada

Con riferimento al D.P.R. 327/2001, il candidato illustri la differenza tra esproprio ed occupazione temporanea.

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## Statistics (from: <https://en.wikipedia.org/>)

Statistics (...) is the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data. In applying statistics to a scientific, industrial, or social problem, it is conventional to begin with a statistical population or a statistical model to be studied. Populations can be diverse groups of people or objects (...). Representative sampling assures that inferences and conclusions can reasonably extend from the sample to the population as a whole. (...) *Descriptive statistics* are most often concerned with two sets of properties of a distribution (sample or population) (...). *Inferences on mathematical statistics* are made under the framework of probability theory, which deals with the analysis of random phenomena.

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Il candidato disegni la seguente figura bidimensionale geometrica: un pentagono di lato 25 u.m. Provveda a riempire la figura con un retino a scelta.

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# Traccia 17

La somma urgenza

Il candidato esponga quali siano le prove che vanno previste in un piano di indagini per la verifica di livello 4 su un ponte in c.a. ad una campata

Con riferimento alla normativa di prevenzione incendi, il candidato illustri la differenza tra scala protetta, scala a prova di fumo interna e scala esterna.

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## History (from: <https://en.wikipedia.org/>)

History (...) is the systematic study and documentation of the human past. The period of events before the invention of writing systems is considered prehistory. "History" is (...) a term comprising past events as well as the memory, discovery, collection, organization, presentation, and interpretation of these events. Historians seek knowledge of the past using historical sources such as written documents, oral accounts, art and material artifacts, and ecological markers. History is incomplete and still has debatable mysteries. (...) Stories common to a particular culture, but not supported by external sources are usually classified as cultural heritage or legends. History differs from myth in that it is supported by verifiable evidence.

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Il candidato disegni la seguente figura bidimensionale geometrica: una ellisse inscritta in un rettangolo con dimensioni di 28 e 8 u.m. Provveda a riempire l'ellisse con un retino a scelta.

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Beth

Gianni

Stefano

Marco

# Traccia 19

La consegna dei lavori

Il candidato esponga cosa sia la velocità di progetto di una strada

Con riferimento alla normativa di prevenzione incendi, il candidato illustri il significato di resistenza al fuoco.

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## Astrology (from: <https://en.wikipedia.org/>)

Astrology is a range of divinatory practices, recognized as pseudoscientific since the 18th century, that claim to discern information about human affairs and terrestrial events by studying the apparent positions of celestial objects. (...) Most, if not all, cultures have attached importance to what they observed in the sky, and some—such as the Hindus, Chinese, and the Maya—developed elaborate systems for predicting terrestrial events from celestial observations. (...) Contemporary Western astrology is often associated with systems of horoscopes that purport to explain aspects of a person's personality and predict significant events in their lives based on the positions of celestial objects; the majority of professional astrologers rely on such systems.

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Il candidato disegni la seguente figura bidimensionale geometrica: un quadrato con lato 20 u.m. e un altro quadrato, inscritto nel precedente, con i vertici corrispondenti ai punti medi del lato. Provveda a riempire i triangoli risultanti con un retino a scelta.

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# Traccia 20

Le riserve apposte dall'impresa

Il candidato descriva gli elementi che caratterizzano la piattaforma stradale ed il dimensionamento

Con riferimento alla normativa di prevenzione incendi, il candidato descriva un sistema di vie di esodo.

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## Etymology (from: <https://en.wikipedia.org/>)

Etymology is the scientific study of the origin and evolution of a word's semantic meaning across time, including its constituent morphemes and phonemes. (...) For languages with a long written history, etymologists make use of texts, and texts about the language, to gather knowledge about how words were used during earlier periods, how they developed in meaning and form, or when and how they entered the language. Etymologists also apply the methods of comparative linguistics to reconstruct information about forms that are too old for any direct information to be available. By analyzing related languages with a technique known as the comparative method, linguists can make inferences about their shared parent language and its vocabulary.

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Il candidato disegni la seguente figura bidimensionale geometrica: un rombo con diagonali rispettivamente di 20 e 12 u.m. Provveda a riempire i settori della figura con quattro retini a scelta.

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# Traccia 21

Le figure della Direzione dei Lavori

Il candidato illustri la composizione della pavimentazione stradale e la tipologia di materiale

Con riferimento alla normativa di prevenzione incendi, il candidato illustri i sistemi di estinzione incendi.

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## Literature (from: <https://en.wikipedia.org/>)

Literature is any collection of written work, but it is also used more narrowly for writings specifically considered to be an art form, especially prose, fiction, drama, poetry, and including both print and digital writing. In recent centuries, the definition has expanded to include oral literature, also known as orature much of which has been transcribed. (...) Literature, as an art form, can also include works in various non-fiction genres, such as biography, diaries, memoir, letters, and essays. Within its broad definition, literature includes non-fictional books, articles or other written information on a particular subject. Developments in print technology have allowed an ever-growing distribution and proliferation of written works.

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Il candidato disegni la seguente figura bidimensionale geometrica: un rombo con diagonali rispettivamente di 45 e 25 u.m. Provveda a riempire i settori della figura con quattro retini a scelta.

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