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The National Council of Experts on Engineering and Survey (NCEES) has published an updated version of the ninth edition of the FE Handbook. The handbook has been revised mainly to include the new OSHA labelling standards in the Security section. This new version (9.3) will be delivered electronically for FE exams during the exam starting in July 2015. As in the previous version, it will be displayed on the exam monitor as a search guide. We want to make sure that FE exams are aware of the change now so they can use this edition in preparation for the exam,' explained NCEES Director of Examination Services Tim Miller, P.E. We encourage them to read the current version before passing the computer exam. The guide is free to download. Related copies can also be purchased online. Published 04:51 04 June 2015

In NCEES, the organization responsible for processing licenses for engineers in the U.S., recently announced that it is updating the FE exam specifications, changing the categories of each exam and the reference book for FE Exam Takers starting July 2020. In other words, the questions that will be considered by July 2020 and after they pass the test will be different from those that will be asked by June 30, 2020 and before the test begins. This blog focuses on changes for civil, mechanical, other disciplines, the environment and the electrical and computer exams of FE. July 2020 and after the exam FE adds and removes a lot of content set by the previous exam, so it's in your favor not to waste time studying topics that don't apply to you. Because these changes have just been announced, you will find that many FE preparatory tutorials include topics that may not be in the new exams as some of the tutorials are now obsolete. Log in to your NCEES account to download the free pdf version of the latest FE Reference. You will use this PDF during the actual FE exam. While specific topics may have been removed from the list in the most recent FE exam specifications, they may still be topics covered in other, broader categories. In particular, if the topic is still present in the FE Handbook, be prepared to work on the FE exam. Be sure to keep this mind when considering these changes from July 2020. Go to Civil Change Jump to Mechanical Changes Jump to Other Disciplines Change Go to Environmental Changes Go to Electrical and Computer Changes For those of you who use PrepFE to prepare for the FE exam: we have updated our website and iOS applications so that you can prepare for the appropriate version of the exam you are taking. You can change this at any time in the settings. PrepFE dashboard presentation. Your answer to this question determines what types of questions You. Civic Construction FE - Changes starting July 2020 Compact Tools Removed Topics About Computing Tools. The entire section has been removed. Geotechnical Engineering Removes Topics About Drainage Drainage Network flow, as Geology Building Engineering Added Topics About Interpretation of Engineering Drawings Removed Topics About Building Security Shooting Remote Topics About Closing Dynamics Remote Topics on Impulse Impulse Mathematics Remote Topics About The Root Equations Combined Mathematics and Statistics in One Section Statistics Section Combined with the math section of Statistics Content remains unchanged Mechanics Materials Removed topics about composite sections of the Topics on column analysis have been moved to the Structural Engineering Section of the Water Resources and Environmental Engineering section of the Hydraulics and Hydrological Systems Section Currently being part of the Water and Environmental Engineering section The Content remains unchanged Structural Analysis Section is now part of the Structural Engineering section Content remains unchanged Content Ethics remains unchanged Engineering and Economic Content remains unchanged Static Content remains unchanged Content content remains unchanged You can find all types of issues for all categories of FE civil engineering in much more detail here. Mechanical Engineering FE - Changes starting July 2020 Math Math content remains unchanged Mathematics section in combination with computational tools section Added topics on pseudo-code Remote topics about tables Probability and stats Added topics about average, mode, standard deviation, and confidence intervals Added topics about weighted average in decision-making ethics and professional practice Removed topics about agreements and contracts Added topics about intellectual mechanics Materials Added topics Caused by Temperature Uncertain Systems Material Properties and Processing Remote Topics About Surface Conditions Added Topics About Creep Failure Thermodynamics Removed Topics About Heat Efficiency and Improvements Removed Topics About Performance Ratios Heat Transmission Remote Topics About Thermal Sustainability Remote Topics About Boiling and Condensation Measurements, Devices, and Control Added Themes about Transducer Mechanical Design and Analysis Added Themes About Engineering Interpretations of Drawing and Geometric Dimension and Tolerant (GD'T) Engineering Economy Content remains unchanged Electricity and Magnetism Content remains unchanged Static The content remains unchanged Dynamics, Kinematics, and Vibration Content remains unchanged the fluid mechanics content remains unchanged You can find all types of questions for all categories of FE engineering in much more detail here. Other FE Disciplines - Changes starting July 2020 Probability and stats Added topics about expected error in that makes Remote topics about average, mode, variance and standard deviation Remote themes about probability distribution (discrete, continuous, normal, binomial) Chemistry Removed topics about the periodic table (item, metals, non-metals, Atomic Structure) Remote Topics about Gas Laws (Boyle and Charles Laws) Engineering Ethics and Social Impact Remote Topics on NCEES Model Law and Model Rules Added topics about the social impact of Health, and Environment Added topics about limited space entry and ventilation rates Added topics about the dangers of statics communication Added topics about free body charts Added topics about weight added topics about weight and Mass Computing (pound, kg, bullet, etc.) The power of materials Added themes about loads and deformities (axis extension, torque-corner turning, moment of rotation) Added themes about the main stresses (Circle of Mohr, Max. Power, and Magnetism (now called Basic Electrical Engineering)) Removed themes about three phases of power (motor efficiency balanced loads, power equation) Heat, Mass, and energy transfer (now called Thermodynamics and Heat Transfer) Removed topics about the mix of non-reactive gases Removed topics about phase equilibrium and phase change Materials Added themes about the choice of fluid mechanics material and the dynamics of the gas content remains unchanged Section is now part of the fluid mechanic The fluid mechanics section and dynamic fluid content remains unchanged Section now being part of the Fluid Mechanics section of the Engineering Economy Content remains unchanged Mathematics Content remains unchanged And content management remains unchanged You can find all types of questions for all FE Other discipline categories in much more detail here. Electrical engineering and computer engineering FE - Changes, Beginning July 2020 Mathematics Added topics about the usual differential equations Probability and statistics Removed topics about evaluation for one average (e.g. point, confidence intervals, conditional probability) Engineering ethics and professional practice Added safety themes (e.g. grounding, materials safety data, SIS, radiation protection) Properties of electrical materials Remote topics about mechanical (e.g. Corrosion, Jonah, Diffusion) Added themes about semiconductor materials (e.g. tunneling, diffusion/current drift, energy bands, doping strips, n theory) Engineering Sciences Entire section and its themes have been removed by linear systems Removed topics about 2- Port Theory Signal Processing Remote Topics About Bundle (Continuous and Discrete), Differences of Equations, and , Energy Stripes, Doping Stripes, p-n Theory) Electromagnetic Removed Topics About Electromagnetic Compatibility Control Systems Removed Topics About Root Locus and State of Variable Computer Networks Added Topics Detection and Prevention of Network Intrusions (e.g. Firewalls, EndPoint Detection, Network Detection) Digital Systems Removed Topics About Data Transfer Path/ Controller Design Of Computer Systems Removed Topics About Architecture (e.g. Pipelining, Memory Cache) Software Development Removed Topics About Software Design Methods (Structured, Structured, Structured, Object-oriented) and Software Testing Engineering and Economic Content Remains Unchanged For All Types of Environmental Engineering FE - Changes Starting July 2020 Mathematics Added Topics About Trigonometry and Algebraic Equations Removed Topics About The Root equations Probability and Statistics Removed Topics About Expected Value (Weighted Average) in Decision-Making Engineering Ethics and Professional Practices Added Topics about Health, Safety and Welfare (e.g. Public Protection Issues, Licensing Boards, Professional responsibility) Added topics about compliance with codes, standards and regulations (e.g. CWA, CAA, RCRA, CERCLA, SDWA , NEPA, OSHA) Removed topics about agreements and contracts Basic Principles Of a whole new section Added topics about reactors Environmental Chemistry Removed topics about ecology (e.g. Streeter-Phelps, Fluviology, Limnology, Eutrophy) Health Hazards and Risk Assessment Added topics about occupational health (e.g., SIS, noise pollution, safety screening) Fluid Mechanics and Hydraulics Added topics about fluid dynamics Added topics about the sustainable and unsustainable flow of Thermodynamics Remote topics about the transmission of hearing and mixes of non-gas-free water resources. The content remains the same. Water and Wastewater Added topics on water conservation and reuse of air quality and control Added themes about indoor quality and air quality (e.g. criteria, toxic and dangerous air pollutants) Added themes about indoor air modeling and control (e.g. air exchange, sustainable and unstable reactor model) Remote topics about chemical principles (e.g. Ideal Gas, Fractions of Moles, Stoichiometry, Henry's Law) Solid and Hazardous Waste Added Topics on Energy Balances Added topics about solid waste management (e.g. solid waste collection, transportation, storage, composting, waste processing into energy) Underground water and soil Content remains unchanged Energy and Environment New section Added themes about energy sources of concept (e.g. conventional and alternative) .greenhouse you can find all types of questions for all categories of FE environmental engineering in much more detail here. fe reference manual fe reference manual civil. fe reference manual 9.5. fe reference manual 9.2. ncees fe reference manual. civil engineering fe reference manual. ncees civil fe reference manual. ncees fe reference manual pdf

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