

# Practice Test NERC Questions and answers | updated 2024

A transmission line is operating with a voltage phase angle different of 30 degrees between the sending  $V_s$  and the receiving bus  $V_r$ . If the receiving end load is suddenly increased, the voltage phase angle difference will be? - The phase angle will increase. When load is increased phase angle will increase.

A load has a power factor of 0.9 lagging. If the load draws 100 MVA, what is the MW draw? - 90 pf= mw/mva

The high side of a delta-wye connection transformer is connected to a power system with 199 kV L-G high side voltage. What is the voltage across the delta winding of the transformer? -  $V_L = \text{square root of 3 times } V_L - g$   $1.73 \times 191 = 345 \text{ kV}$

If a transmission line is carrying 400 MW and 300 MVAR what is the MVA? - 3-4-5 triangle 500 MVA

The prime mover is the component of the generator that creates the rotational force. In a typical coal fired steam generator what component spins the rotor? - Turbine  
Reactive reserve response during a disturbance is best obtained from which device? - Synchronous condensers

For two identically constructed transmission lines where Line A is 150 miles long and line B is 15 miles long, if both lines are lightly loaded? - A produces more reactive power than B.

Lightly loaded transmission lines essentially behave like? - Shunt Capacitors

You receive an alarm that indicates low oil pressure on an underground transmission cable. SCADA shows the pressure is continuing to drop. What is the first step you take to protect the line? - Isolate the line

Computer simulations show that for a 100 MW schedule from Bus A to Bus B, 63% of the schedule will flow on the scheduled path and the remainder will flow on other parallel paths. What is the distribution factor for the scheduled path? - 63%

Which statement best describes how reactive power MVAR power normally flows? - High Voltage to Low Voltage

Which of the following types of data are BA and RC not required to share with one another? - Generator start up cost

TOP must develop, maintain, and implement formal policies and procedures to provide for transmission reliability. Which of the following DOES NOT need to be addressed in these policies and procedures? - Planned outages of generation units

A 1000 MVA rated generator that produces 800 MW and 100 MVAR is best described as? - Operating in a lagging mode. Inductive system

Which of the following types of MW load is the most impacted by an intentional frequency reduction? - Motor

Assume there are two 250 mile long transmission lines exporting an excessive amount of MW from a generation area to a load area. One of the lines suddenly trips and the area power system collapses within a few seconds. The most likely cause of the collapse? - Angle instability

# Nerc Practice Test Questions

**Jiyuan Zhang**



## **Nerc Practice Test Questions:**

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were submitted to the conference All of them were evaluated on the basis of their novelty and technical quality and reviewed by at least two members of the conference Program Committee Of the papers submitted 39 were selected for presentation at the conference the acceptance rate was as low as 22% thus making the conference a highly competitive forum It is the commitment of several people that makes international conferences possible That also holds true for SEC 2009 The list of people who volunteered their time and energy to help is really long **Federal Register** ,2013-10 *NERC News* ,1987

*NERC Newsjournal* Natural Environment Research Council (Great Britain),1982 **Practical Industrial Cybersecurity** Charles J. Brooks,Philip A. Craig, Jr.,2022-05-10 A practical roadmap to protecting against cyberattacks in industrial environments In *Practical Industrial Cybersecurity* ICS Industry 4.0 and IIoT veteran electronics and computer security author Charles J Brooks and electrical grid cybersecurity expert Philip Craig deliver an authoritative and robust discussion of how to meet modern industrial cybersecurity challenges The book outlines the tools and techniques used by practitioners in the industry today as well as the foundations of the professional cybersecurity skillset required to succeed on the SANS Global Industrial Cyber Security Professional GICSP exam Full of hands on explanations and practical guidance this book also includes Comprehensive coverage consistent with the National Institute of Standards and Technology guidelines for establishing secure industrial control systems ICS Rigorous explorations of ICS architecture module and element hardening security assessment security governance risk management and more *Practical Industrial Cybersecurity* is an indispensable read for anyone preparing for the Global Industrial Cyber Security Professional GICSP exam offered by the Global Information Assurance Certification GIAC It also belongs on the bookshelves of cybersecurity personnel at industrial process control and utility companies *Practical Industrial Cybersecurity* provides key insights to the Purdue ANSI ISA 95 Industrial Network Security reference model and how it is implemented from the production floor level to the Internet connection of the corporate network It is a valuable tool for professionals already working in the ICS Utility network environment IT cybersecurity personnel transitioning to the OT network environment and those looking for a rewarding entry point into the cybersecurity field *CompTIA Security+ SY0-601 Exam Cram* Martin M. Weiss,2020-10-30 Prepare for CompTIA Security SY0 601 exam success with this Exam Cram from Pearson IT Certification a leader in IT certification This is the eBook edition of the *CompTIA Security SY0 601 Exam Cram Sixth Edition* This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition *CompTIA Security SY0 601 Exam Cram Sixth Edition* is the perfect study guide to help you pass the newly updated version of the CompTIA Security exam It provides coverage and practice questions for every exam topic Extensive prep tools include quizzes Exam Alerts and our essential last minute review Cram Sheet Covers the critical information you'll need to know to score higher on your Security SY0 601 exam Assess the different types of threats attacks and vulnerabilities organizations face Understand security concepts across traditional cloud mobile and IoT environments Explain and implement security controls across multiple environments Identify analyze and

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Federal Workforce, and the District of Columbia,2004

**The Oxford Handbook of Cyber Security** Paul

Cornish,2021-11-04 Cyber security is concerned with the identification avoidance management and mitigation of risk in or from cyber space The risk concerns harm and damage that might occur as the result of everything from individual carelessness to organised criminality to industrial and national security espionage and at the extreme end of the scale to disabling attacks against a country s critical national infrastructure However there is much more to cyber space than vulnerability risk and threat Cyber space security is an issue of strategy both commercial and technological and whose breadth spans the international regional national and personal It is a matter of hazard and vulnerability as much as an opportunity for social economic and cultural growth Consistent with this outlook The Oxford Handbook of Cyber Security takes a comprehensive and rounded approach to the still evolving topic of cyber security The structure of the Handbook is intended to demonstrate how the scope of cyber security is beyond threat vulnerability and conflict and how it manifests on many levels of human interaction An understanding of cyber security requires us to think not just in terms of policy and strategy but also in terms of technology economy sociology criminology trade and morality Accordingly contributors to the Handbook include experts in cyber security from around the world offering a wide range of perspectives former government officials private sector executives technologists political scientists strategists lawyers criminologists ethicists security consultants and policy analysts

*Land and People* Michael J. Allen,Niall Sharples,Terry O'Connor,2009-09-10 This volume is derived in concept from a conference held in honour of John Evans by the School of History and Archaeology and The Prehistoric Society at Cardiff University in March 2006 It brings together papers that address themes and landscapes on a variety of levels They cover geographical methodological and thematic areas that were of interest to and had been studied by John Evans The volume is divided into five sections which echo themes of importance in British prehistory They include papers on aspects of environmental archaeology experiments and philosophy new research on the nature of woodland on the chalklands of southern England coasts and islands people process and social order and snails and shells a strong part of John Evans career This volume presents a range of papers examining people s interaction with the landscape in all its forms The papers provide a diverse but cohesive picture of how archaeological landscapes are viewed within current research frameworks and approaches while also paying tribute to the innovative and inspirational work of one of the leading protagonists of environmental archaeology and the holistic approach to landscape interpretation

*Encyclopedia of Information Science and Technology* Mehdi Khosrow-Pour,Mehdi Khosrowpour,2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher

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