

2008 NEC Study Guide For “Grounding Separately Derived Systems”

(This Study Guide was prepared by Gaylord Poe)

What is a “Separately Derived System”?

NEC Art. 100 defines a Separately Derived System as “A premises wiring system whose power is derived from a source of electric energy or equipment other than a service. Such systems have no direct electrical connection, including a solidly connected grounded circuit conductor, to supply conductors originating in another system.”

Are all Generator & Transformer Installations Separately Derived Systems?

- For **generator** installations, the connections in the transfer switch determine if a generator is a separately derived system. *(If the neutrals from the “normal” and the “emergency” and the “load” all tie together in the transfer switch the generator is not a separately derived system.)*
- For **transformer** installations, most premises wiring transformers that you encounter will be separately derived systems. *(The exception being a “Y-Y” transformer where the primary and secondary neutral conductors are tied together.)*

Determining whether or not an installation is a “separately derived system” is extremely important so that proper and safe system grounding can be achieved. For example, if a system is not separately derived, a downstream connection of a circuit conductor to a grounding electrode system will have disastrous results. Separately derived systems require a separate grounding electrode conductor and non-separately derived systems (generators and transformers with a direct neutral-to-neutral connection with the service) do not require a separate grounding electrode conductor because the neutrals **are already connected to a grounding electrode system** through the common neutral connection.

Grounding Separately Derived Systems –

The rules for establishing the grounding electrode system for a separately derived system are very similar to the rules for the grounding of services. Some of the applicable code sections are listed at the end of this section.

Some of the similarities are: If there is a neutral* (a grounded system) it must be bonded and grounded. It must be connected to a grounding electrode system via a grounding electrode conductor. This connection can be upstream but not downstream of the system overcurrent device. A system having no neutral (an ungrounded system), must also be connected to a grounding electrode system in like manner. The grounding electrode

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Hagop M. Kantarjian, Robert A. Wolff



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Electrician's Exam Preparation Guide John E. Traister, 2008 If you're getting ready to take the electrician's exam and drowning in pages of tables, rules and exceptions here's the book you need. You'll find almost a thousand multiple choice questions to study based on actual tests administered over the last few years in states and counties across the U.S. The questions are written just as they are on the exams except the answer and an explanation is provided below each question.

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Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers *Electrical General Study Guide 2008* ,2010-09-10 **Plan Review Study Guide** ,2009-06-23 Electrician's Exam Study Guide 2/E Kimberley Keller,2012-09-11 Ace the Journeyman and Master Electrician Exams Featuring more than 1 500 practice questions and answers Electrician s Exam Study Guide Second Edition provides everything you need to prepare for and pass the Journeyman and Master electrician licensing exams on the first try This practical up to date resource is filled with detailed illustrations Test Tips which explain how to arrive at the correct answers and Code Updates which clarify changes in the 2011 NEC Answer sheets include cross references to the precise article and section of the NEC from which questions are taken Fully revised throughout this careerbuilding guide helps you Master the material most likely to appear on the licensing exams Improve your test taking ability with 1 500 true false and multiple choice questions and answers Keep up with the 2011 NEC Acquire the confidence skills and knowledge needed to pass your exam Covers essential topics including Articles 90 through 110 Wiring requirements and protection Wiring methods and materials Equipment for general use Special occupancies and classifications Special equipment Special conditions Communications Tables annexes and examples Math calculations and basic electrical theory Review and applying principles Master electrician skills Techniques for studying and taking your test *Electrician's Exam Preparation Guide* John E. Traister,2005 A question and answer study guide for students and apprentices preparing to take the journeyman s or master s electrician s exam based on the 2005 National Electrical Code Occupational Therapy Examination Review Guide Caryn R Johnson,Tina DeAngelis,Mary Muhlenhaupt,2015-05-27 Rely on the guide that has helped thousands of students pass their exams with exactly the practice they need The 4th Edition mirrors the latest NBCOT exam blueprint and the question formats multiple choice and simulation at the difficulty level and in the decision making style of the actual exam More than 1 000 questions in five practice exams help you identify your strengths and weaknesses while you improve your test taking performance

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International Manual of Oncology Practice Ramon Andrade De Mello,Giannis Mountzios,Álvaro A. Tavares,2019-10-15

Cancer is a very aggressive disease and currently it has been considered a challenge to oncologists and cancer patients worldwide. Nowadays several therapeutic strategies have improved toward last decades. Surgery is many times still the best curative treatment mainly in early stage disease. However, Radiotherapy and chemotherapy acquired a main role in this scenario. Target therapies were introduced for medical oncology practice and are demonstrating a hallmark of a new era in cancer treatment. More recently immunotherapy has been considered the novel cornerstone in cancer treatment. The 2nd edition of the International Manual of Oncology Practice iMOP emerged after the great success of the iMOP 1st edition as a reference for medical oncologists and medical residents in the field. In this edition several chapters were revised and it addresses from the molecular issues of cancer sciences to the clinical practice in medical oncology. In addition multiple choice questions and clinical cases were included in the main chapters in order to improve the reader learning. The book focuses systemic treatments in many areas of medical oncology such as breast cancer, gastrointestinal, thoracic, urological, oncology, head and neck tumors, bone tumors, sarcomas, and palliative care. The topics herein discussed will provide the readers a step forward in the medical oncology practice understanding and give facilities for help in cancer patient treatments. **Library Journal**, 2009. Menander in Antiquity Sebastiana Nervegna, 2013-04-25. The comic playwright Menander was one of the most popular writers throughout antiquity. This book reconstructs his life and the legacy of his work until the end of antiquity, employing a broad range of sources such as portraits, illustrations of his plays, papyri preserving their texts, and inscriptions recording their public performances. These are placed within the context of the three social and cultural institutions which appropriated his comedy, thereby ensuring its survival: public theatres, dinner parties, and schools. Dr. Nervegna carefully reconstructs how each context approached Menander's drama and how it contributed to its popularity over the centuries. The resultant highly illustrated book will be essential for all scholars and students, not just of Menander's comedy but more broadly of the history and iconography of the ancient theatre, ancient social history, and reception studies.

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U. S. News and World Report Ultimate College Guide U.S. News & World Report (Firm),2007-10 In the simplest of terms leadership is about influencing people to achieve an objective that is important to the leader the group and the organization It is the human element leading motivating and inspiring particularly during times of crisis chaos and complexity when directives policy statements and communiques have little effect on cold exhausted and stressed followers Strong leadership encourages subordinates to go beyond the obligation to obey and commit to the mission in a way that maximizes their potential The Military Leadership Handbook is a concise and complete manual that identifies describes and explains all those concepts components and ideas that deal with or directly relate to military leadership The book is a comprehensive compendium that focuses on among other subjects cohesion command cultural intelligence discipline fear and trust this applied manual provides invaluable assistance to anyone who wishes to acquire a better understanding of both the theory and application of military leadership

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