

NFPA 70E COMPLIANCE GUIDE

This guide shall only be used in conjunction with performing the necessary calculations contained in a flash hazard analysis to determine the proper cal/cm². If the results of the calculations exceed the cal/cm² that correspond to the HRC found on this guide, you must use clothing that complies with the calculation.

| Panelboards Rated 240 V and Below - Notes 1 and 3 | | | | 600 V Class Switchgear (with power circuit breakers or fused switches) - Notes 5 and 6 | | | | NEMA IZ (fused contactor) Motor Starters, 2.3 kV through 7.2 kV | | | |
|--|---|-----------------------------|---|---|----------------|---------------|-----|---|----------------|---------------|-----|
| TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC |
| Circuit Breaker (CB) or fused switch operation with covers on | | | 0 | CB or fused switch operation with enclosure doors closed | | | 0 | Contactor operation with enclosure doors closed | | | 0 |
| CB or fused switch operation with covers off | | | 0 | Reading a panel meter while operating a meter switch | | | 0 | Reading a panel meter while operating a meter switch | | | 0 |
| Opening hinged covers (to expose bare, energized parts) | | | 0 | Work on control circuits with energized parts 120 V or below, exposed | Y | Y | 0 | Work on control circuits with energized parts 120 V or below, exposed | Y | Y | 0 |
| Removal of bolted covers (to expose bare, energized parts) | | | 1 | CB or fused switch operation with enclosure doors open | | | 1 | Inspection or removal (backing) of starters from subcubes, doors closed | | | 2 |
| Remove or install CB's or fused switches | Y | Y | 1 | Inspection or removal (backing) of CB's from subcubes, doors closed | | | 2 | Contactor operation with enclosure doors open | | | 2 * |
| Work on energized parts, including voltage testing | Y | Y | 1 | Opening hinged covers (to expose bare, energized parts) | | | 2 | Inspection or removal (backing) of starters from subcubes, doors open | | | 3 |
| Panelboards / Switchboards Rated 240 V to 600 V (with molded case or insulated case CB's) - Notes 1 & 3 | | | | Application of safety grounds, after voltage test | Y | | 2 * | Opening hinged covers (to expose bare, energized parts) | Y | | 3 |
| TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves <td>V-Rated Tools</td> <td>HRC</td> <td>Work on energized parts, including voltage testing</td> <td>Y</td> <td>Y</td> <td>2 *</td> <td>Application of safety grounds, after voltage test</td> <td>Y</td> <td>Y</td> <td>3</td> | V-Rated Tools | HRC | Work on energized parts, including voltage testing | Y | Y | 2 * | Application of safety grounds, after voltage test | Y | Y | 3 |
| CB or fused switch operation with covers on | | | 0 | Work on control circuits with energized parts >120 V exposed | Y | Y | 2 * | Work on control circuits with energized parts >120 V exposed | Y | Y | 3 |
| CB or fused switch operation with covers off | | | 1 | Inspection or removal (backing) of CB's from subcubes, doors open | | | 3 | Work on energized parts, including voltage testing | Y | Y | 3 |
| Work on energized parts, including voltage testing | Y | Y | 2 * | Removal of bolted covers (to expose bare, energized parts) | | | 3 | Removal of bolted covers (to expose bare, energized parts) | | | 4 |
| 600 V Class Motor Control Centers (MCC's) - Notes 2 (except as indicated) and 3 | | | | Other 600 V Class (277 V to 600 V Nominal) Equipment - Lighting or small power transformers (600V Max) - Note 3 | | | | Metal Clad Switchgear, 1 kV and Above | | | |
| TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC |
| CB or fused switch or starter operation with enclosure doors closed | | | 0 | Opening hinged covers (to expose bare, energized parts) | | | 1 | Reading a panel meter while operating a meter switch | | | 0 |
| Reading a panel meter while operating a meter switch | | | 0 | Removal of bolted covers (to expose bare, energized parts) | | | 2 * | CB or fused switch operation with enclosure doors closed | | | 2 |
| Work on control circuits with energized parts 120 V or below, exposed | Y | Y | 0 | Application of safety grounds, after voltage test | Y | | 2 * | Work on control circuits with energized parts 120 V or below, exposed | Y | Y | 2 |
| CB or fused switch or starter operation with enclosure doors open | | | 1 | Work on energized parts, including voltage testing | Y | Y | 2 * | Opening hinged covers (to expose bare, energized parts) | | | 3 |
| Opening hinged covers (to expose bare, energized parts) | | | 1 | Other 600 V Class (277 V to 600 V Nom.) Equip. - Revenue meters (kW/h at primary voltage & current) - Note 3 | | | | CB or fused switch operation with enclosure doors open | | | 4 |
| Removal of bolted covers (to expose bare, energized parts) | | | 2 * | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC | Inspection or removal (backing) of CB's from subcubes, doors open | | | 4 |
| Application of safety grounds, after voltage test | Y | | 2 * | Cable trough or tray cover removal or installation | | | 1 | Removal of bolted covers (to expose bare, energized parts) | | | 4 |
| Work on energized parts, including voltage testing | Y | Y | 2 * | Miscellaneous equipment cover removal or installation | | | 1 | Opening voltage transformer or control power transformer compartments | | | 4 |
| Work on control circuits with energized parts >120 V exposed | Y | Y | 2 * | Application of safety grounds, after voltage test | Y | | 2 * | Application of safety grounds, after voltage test | Y | | 4 |
| Inspection or removal of individual starter "brackets" from MCC - Note 4 | Y | | 3 | Inspection or removal | Y | | 2 * | Work on energized parts, including voltage testing | Y | Y | 4 |
| | | | | Work on energized parts, including voltage testing | Y | Y | 2 * | Work on control circuits with energized parts >120 V exposed | Y | Y | 4 |
| Minimum Clothing Requirements | | | | Other Equipment 1 kV and Above - Metal clad load interrupter switches, fused or unfused | | | | Other Equipment 1 kV and Above - Metal clad load interrupter switches, fused or unfused | | | |
| HRC | Protective Clothing | Minimum Cal/cm ² | PPE/Safety glasses, leather safety shoes required (for all) | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC | TASK (equipment to be energized & work is done within the flash protection boundary) | V-Rated Gloves | V-Rated Tools | HRC |
| 0 | Natural fiber short-sleeved shirt and long pants | NO | Hard Hat | Switch operation, doors closed | | | 2 | Outdoor disconnect switch operation (open-operated, from grade) | | | 2 |
| 1 | Natural fiber long-sleeved shirt and pants | NO | Hard Hat | Insulated cable exam, in open area | Y | | 2 | Opening hinged covers (to expose bare, energized parts) | | | 3 |
| 2 | Denim jeans and FR long-sleeved shirt OR FR long-sleeved shirt and pants OR FR coveralls | 4 | Hard Hat | Outdoor disconnect switch operation (remote/automatic) | | | 3 | Removal of bolted covers (to expose bare, energized parts) | Y | Y | 3 |
| 2 * | FR long-sleeved shirt and pants OR FR coveralls | 8 | Hard Hat, Arc-Rated Face Shield | Inspection or removal (backing) of CB's from subcubes, doors open | | | 4 | Inspection or removal (backing) of starters from subcubes, doors open | | | 4 |
| 3 | FR long-sleeved shirt and pants OR FR coveralls | 8 | Hard Hat, Multi-Layer Switching Hood, Hearing Protection | Removal of bolted covers (to expose bare, energized parts) | | | 4 | Work on energized parts, including voltage testing | Y | Y | 4 |
| 4 | Multi-Layer flash suit over FR long-sleeved shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants | 25 | Hard Hat, Multi-Layer Switching Hood, Hearing Protection | Work on energized parts, including voltage testing | Y | Y | 4 | Work on control circuits with energized parts >120 V exposed | Y | Y | 4 |
| 5 | Multi-Layer flash suit over FR long-sleeved shirt and pants | 40 | Hard Hat, Multi-Layer Switching Hood, Hearing Protection | | | | | | | | |
| * If the notes cannot be satisfied, work must be performed de-energized. | | | | Definitions: Y=Yes (Required) | | | | Definitions: Y=Yes (Required) | | | |
| Note 1: Maximum of 25 kA short circuit current available, 0.03 second (2 cycle) fault clearing time. | | | | Note 1: Maximum of 25 kA short circuit current available, 0.03 second (2 cycle) fault clearing time. | | | | V-Rated Gloves : gloves rated and tested for the maximum line-to-line voltage upon which work will be done. Leather protectors must be worn externally if v-rated rubber gloves could be damaged. | | | |
| Note 2: Maximum of 65 kA short circuit current available, 0.03 second (2 cycle) fault clearing time. | | | | Note 2: Maximum of 65 kA short circuit current available, 0.03 second (2 cycle) fault clearing time. | | | | V-Rated Tools : tools rated and tested for the maximum line-to-line voltage upon which work will be done. | | | |
| Note 3: For < 10 kA short circuit current available, the HRC required may be reduced by one category. | | | | Note 3: For < 10 kA short circuit current available, the HRC required may be reduced by one category. | | | | | | | |
| Note 4: Maximum of 62 kA short circuit current available, 0.53 second (25 cycle) fault clearing time. | | | | Note 4: Maximum of 62 kA short circuit current available, 0.53 second (25 cycle) fault clearing time. | | | | | | | |
| Note 5: Maximum of 35 kA short circuit current available, < 0.5 second (30 cycle) fault clearing time. | | | | Note 5: Maximum of 35 kA short circuit current available, < 0.5 second (30 cycle) fault clearing time. | | | | | | | |
| Note 6: For < 25 kA short circuit current available, the HRC required may be reduced by one category. | | | | Note 6: For < 25 kA short circuit current available, the HRC required may be reduced by one category. | | | | | | | |
| *Circuits over 480vol/1ph should only be worked de-energized. | | | | Revised 8-05 | | | | | | | |
| | | | | HRC : Highest Risk Category | | | | FR : Flame Resistant | | | |

Nfpa 70e Teaching Guide

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Electrical Safety Code Manual Kimberley Keller, 2010-07-19 Safety in any workplace is extremely important. In the case of the electrical industry, safety is critical, and the codes and regulations which determine safe practices are both diverse and complicated. Employers, electricians, electrical system designers, inspectors, engineers, and architects must comply with safety standards listed in the National Electrical Code, OSHA, and NFPA 70E. Unfortunately, the publications which list these safety requirements are written in very technically advanced terms, and the average person has an extremely difficult time understanding exactly what they need to do to ensure safe installations and working environments. The *Electrical Safety Code Manual* will tie together the various regulations and practices for electrical safety and translate these complicated standards into easy-to-understand terms. This will result in a publication that is a practical, if not essential, asset to not only designers and company owners but to the electricians who must put compliance requirements into action in the field. Best practice methods for accident prevention and electrical hazard avoidance. Current safety regulations including new standards from OSHA, NEC, NESC, and NFPA. Information on low, medium, and high voltage safety systems. Step-by-step guidelines on safety audits. Training program, how to set up to rescue and first aid procedures. *Electrical Solutions: Solving the Problems They Don't Teach You* Charles Nehme, Every electrician, engineer, and contractor has a story about the job that went wrong. It's the one where the blueprint was outdated, the client changed their mind mid-installation, or a seemingly simple troubleshooting task turned into a multi-day investigation. Textbooks and trade school curricula provide the essential foundation: the Ohm's Law, the National Electrical Code, the theory of circuits, but they don't teach you how to navigate the messy, unpredictable reality of a live job site. This book is for those moments. *Electrical Solutions* is a guide to the unwritten rules of the trade. It's a resource for solving the problems that they don't teach you in school, the ones that require critical thinking, a practical eye, and a deep understanding of how systems truly interact. We will move beyond theory and delve into the real-world scenarios that challenge even the most experienced professionals: diagnosing intermittent faults, managing power quality issues, integrating old and new systems, and communicating effectively with everyone from clients to inspectors. My goal is to equip you with the practical strategies and a problem-solving mindset that will allow you to anticipate challenges, diagnose issues efficiently, and deliver solutions that are not just compliant but robust and reliable. Whether you are a seasoned professional looking to refine your skills or a newcomer seeking to bridge the gap between classroom knowledge and on-the-job expertise, this book will serve as your essential companion. **Senior Design Projects in Mechanical Engineering** Yongsheng Ma, Yiming Rong, 2021-11-10 This book offers invaluable insights about the full spectrum of core design course contents systematically and in detail. This book is for instructors and students who are involved in teaching and learning of capstone senior design projects in mechanical engineering. It consists of 17 chapters over 300 illustrations with many real-world student project examples. The main project processes are grouped into three

phases i.e project scoping and specification conceptual design and detail design and each has dedicated two chapters of process description and report content prescription respectively The basic principles and engineering process flow are well applicable for professional development of mechanical design engineers CAD CAM CAE technologies are commonly used within many project examples Thematic chapters also cover student teamwork organization and evaluation project management design standards and regulations and rubrics of course activity grading Key criteria of successful course accreditation and graduation attributes are discussed in details In summary it is a handy textbook for the capstone design project course in mechanical engineering and an insightful teaching guidebook for engineering design instructors

Tool and Manufacturing Engineers Handbook: Material and Part Handling in Manufacturing Philip Mitchel,1983 Get the expert advise you need to shrink handling costs reduce downtime and improve efficiency in plant operations You ll use this comprehensive handbook during post design process selection and planning for establishing quality controls tests and measurements to streamline production and for managerial decision making on capital investments and new automated systems

Electrical Safety: Safety and Health for Electrical Trades Thaddeus W. Fowler,2010 This student manual developed by NIOSH is part of a safety and health curriculum for secondary and post secondary electrical trades courses It is designed to engage the learner in recognizing evaluating and controlling hazards associated with electrical work It was developed through extensive research with vocational instructors Chapters Electricity is Dangerous Dangers of Electrical Shock Burns Caused by Electricity includes First Aid Fact Sheet Overview of the Safety Model Recognizing Hazards Evaluating Hazards Controlling Hazards Safe Work Environment and Controlling Hazards Safe Work Practices Glossary of Terms Illustrations

Risk Assessment Georgi Popov,Bruce K. Lyon,Bruce D. Hollcroft,2022-01-19 Risk Assessment Explore the fundamentals of risk assessment with references to the latest standards methodologies and approaches The Second Edition of Risk Assessment A Practical Guide to Assessing Operational Risks delivers a practical exploration of a wide array of risk assessment tools in the contexts of preliminary hazard analysis job safety analysis task analysis job risk assessment personnel protective equipment hazard assessment failure mode and effect analysis and more The distinguished authors discuss the latest standards theories and methodologies covering the fundamentals of risk assessments as well as their practical applications for safety health and environmental professionals with risk assessment responsibilities What If Checklist Analysis Methods are included for additional guidance Now in full color the book includes interactive exercises links videos and online risk assessment tools that can be immediately applied by working practitioners The authors have also included Material that reflects the latest updates to ISO standards the ASSP Technical Report and the ANSI Z590.3 Prevention through Design standard New hazard phrases for chemical hazards in the Globally Harmonized System as well as NIOSH s new occupational exposure banding tool The new risk based approach featured in the NAVY IH Field Manual New chapters covering business continuity causal factors analysis and layers of protection analysis and barrier analysis An

indispensable resource for employed safety professionals in a variety of industries business leaders and staff personnel with safety responsibilities and environmental engineers Risk Assessment A Practical Guide to Assessing Operational Risks is also useful for students in safety health and environmental science courses **Professional Safety** ,2002

Consulting-specifying Engineer ,2004 *Safety & Health* ,2005 **Materials Evaluation** ,2006 *NFPA 70E, Standard for Electrical Safety in the Workplace, Code and Handbook Set* National Fire Protection Association (NFPA),2021-07-28 **Iron & Steel Technology** ,2004 **NFPA 70E, Standard for Electrical Safety in the Workplace** National Fire Protection Association (NFPA),2018-10-27 *Commerce Business Daily* ,2001-06
 SIGNIFICANT CHANGES TO NFPA, 2018 ,2018 **Electrical Safety** James R. White,2015 **2024 Version NFPA 70E Workbook** Tom Henry,2023-07-07 **2021 Version NFPA 70E Workbook in Pictures** Tom Henry,2023-07-04
 NFPA 70E®, Standard for Electrical Safety in the Workplace®, Self-Adhesive Index Tabs National Fire Protection Association (NFPA),2023-05-22 **NFPA 70E Standard for Electrical Safety Requirements for Employee Workplaces--2000** National Fire Protection Association (NFPA),2000

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