

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 248 V and Below - Notes 1 and 2				600 V Class Switchgear (with power circuit breakers or fused switches) - Notes 5 and 6				NEMA E2 (fused contactor) Motor Starters, 2.3 kV through 7.2 kV			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is 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	Reaching a panel meter while operating a meter switch			0	Reaching 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 (packaging) of starters from subcabinets, doors closed			2
Remove or install CB's or fused switches	Y	Y	1	Inspection or removal (packaging) of CB's from subcabinets, 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 (packaging) of starters from subcabinets, doors open			3
	Y	Y	1	Application of safety grounds, after voltage test	Y		2 *	Opening hinged covers (to expose bare, energized parts)	Y		3
				Work on energized parts, including voltage testing	Y	Y	2 *	Application of safety grounds, after voltage test	Y	Y	3
				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
				Inspection or removal (packaging) of CB's from subcabinets, doors open			3	Work on energized parts, including voltage testing	Y	Y	3
				Removal of bolted covers (to expose bare, energized parts)			3	Removal of bolted covers (to expose bare, energized parts)			4
Panelboards / Switchboards Rated 248 V to 600 V (with molded case or insulated case CB's) - Notes 1 & 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 is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC
CB or fused switch operation with covers on			0	Opening hinged covers (to expose bare, energized parts)			1	Reaching a panel meter while operating a meter switch			0
CB or fused switch operation with covers off			1	Removal of bolted covers (to expose bare, energized parts)			2 *	CB or fused switch operation with enclosure doors closed			2
Work on energized parts, including voltage testing	Y	Y	2 *	Application of safety grounds, after voltage test	Y		2 *	Work on control circuits with energized parts 120 V or below, exposed	Y	Y	2
				Work on energized parts, including voltage testing	Y	Y	2 *	Opening hinged covers (to expose bare, energized parts)			3
								CB or fused switch operation with enclosure doors open			4
								Inspection or removal (packaging) of CB's from subcabinets, doors open			4
								Removal of bolted covers (to expose bare, energized parts)			4
								Opening voltage transformer or control power transformer compartments			4
								Application of safety grounds, after voltage test	Y		4
								Work on energized parts, including voltage testing	Y	Y	4
								Work on control circuits with energized parts >120 V exposed	Y	Y	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 Nom.) Equip - Revenue meters (kWh at primary voltage & current) - Note 3				Metal Clad Switchgear, 1 kV and Above			
TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	TASK (equipment is 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	Reaching a panel meter while operating a meter switch			0
Reaching 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 (kWh 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 is energized & work is done within the flash protection boundary)	V-Rated Gloves	V-Rated Tools	HRC	Inspection or removal (packaging) of CB's from subcabinets, 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				TASK (equipment is energized & work is done within the flash protection boundary)			
HRC	Protective Clothing		Minimum Cal/cm ²	PPE (Safety glasses, leather safety shoes required for all)		V-Rated Gloves		V-Rated Tools	HRC		
0	Natural fiber short-sleeved shirt and long pants		N/A	Hard Hat					Switch operation, doors closed		2
1	Natural fiber long-sleeved shirt and pants		N/A	Hard Hat					Outdoor disconnect switch operation (open/closed, from grade)		2
2	Denim jeans and FR long-sleeved shirt OR FR long-sleeved shirt and pants OR FR coveralls		4	Hard Hat					Insulated cable exam, in open area	Y	2
2 *	FR long-sleeved shirt and pants OR FR coveralls		8	Hard Hat, Arc-Rated Face Shield					Opening hinged covers (to expose bare, energized parts)		3
3	FR long-sleeved shirt and pants OR FR coveralls		8	Hard Hat, Multi-Layer Switching Hood, Hearing Protection					Outdoor disconnect switch operation (breakback operation)	Y	3
3	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-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					Removal of bolted covers (to expose bare, energized parts)		4
4	Multi-Layer flash suit over FR long-sleeved shirt and pants over natural fiber short-sleeved T-shirt and pants OR Multi-Layer flash suit over FR coveralls over natural fiber short-sleeved T-shirt and pants		40	Hard Hat, Multi-Layer Switching Hood, Hearing Protection					Insulated cable examination, in manhole or other confined space	Y	4
									Work on energized parts, including voltage testing	Y	4
									Work on control circuits with energized parts >120 V exposed	Y	4
* If the notes cannot be satisfied, work must be performed de-energized.											
Note 1: Maximum of 25 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.											
Note 3: For < 10 kA short circuit current available, the HRC required may be reduced by one category.											
Note 4: Maximum of 42 kA short circuit current available, 0.33 second (20 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.											
*Circuits over 400kV/cm ² should only be worked de-energized.											
Revised 8-05											
						Definitions: Y=Yes (Required)					
						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.					
						V-Rated Tools : tools rated and tested for the maximum line-to-line voltage upon which work will be done.					
						HRC : Hazard Risk Category FR : Flame Resistant					

Nfpa 70e Compliance Guide

Terry C. Jones

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Engineer's Guide to the National Electrical Code H. Brooke Stauffer, 2008 This informative introduction to the NEC provides electrical engineers both professionals and students with invaluable insight to customary building codes Written by the Executive Director of Standards and Safety of the NECA H Brooke Stauffer offers a comprehensive description of the NEC and commonly encountered building codes when designing a building s electrical subsystems The Engineer s Guide to the National Electrical Code steers beginning electrical engineers through the complex regulations of the NEC in a clear and accessible way

The Electrical Safety Program Guide Ray A. Jones (P.E.), Jane G. Jones, 2011 Based on the 2009 NFPA 70E and current OSHA regulations this updated edition takes readers step by step through the creation of an electrical safety program discussing program development from conception through finalization for a plan tailored to a company s unique environment

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 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 s from setup to rescue and first aid procedures

Osha James G. Stallcup, 2006-02-23 Based on the 2004 edition of NFPA 70E this book ties together the rules of 29 CFR 1910 and the 70E rules that show you how to comply with the OSHA regulations and maintain a safe workplace Related requirements from the NEC and other standards are included along with many examples and illustrations to aid in understanding and applying the rules

Professional Safety, 2005

The European Arc Flash Guide Mike Frain CEng FIET MCMI, 2021-09-20 This book is essential reading for anyone responsible for designing or putting workers to task on or near large power electrical systems This is especially relevant where local health and safety law uses a risk based approach to electrical safety such as in Europe It is based upon a bedrock of risk management methodology using the 4Ps of Predict Prevent Process and Protect to ensure that arc flash hazards are systematically identified analysed and prevented from causing harm Each of the 4Ps are described in detail starting with a quantitative prediction of harm from the arc flash hazard and then a separate chapter on prevention

based upon practical measures avoid or minimise harm set against a hierarchy of risk control measures The chapter on process policy and procedures gives advice on a methodical approach to creating rules and ensuring competence Finally the chapter on protection describes as a last resort how personal protective equipment can be selected used and maintained This book is packed with the fruits of the author s vast experience and there is a chapter dedicated to myths and mysteries as well as separate chapters for electrical utilities duty holders service providers contractors legislation and data collection

Concise Guide to Workplace Safety and Health Gary Chambers,2011-01-05 Every organization must comply with occupational health and safety regulations Yet it is frequently unclear which actually apply in a given real life situation plus the field is loaded with technical terminology and complicated regulations Many managers trainers even safety and health professionals therefore find it hard to know how to comply with exactly what Written to make this important discipline more understandable Concise Guide to Workplace Safety and Health What You Need to Know When You Need It systematically addresses for each of the 34 topics covered core issues such as relevant regulations required program elements and definitions of key terms Organized for quick access to information this handy reference book demystifies required documentation training elements medical requirements recordkeeping and more Conveniently the author uses the same 20 part format for every topic For example if you want to know only about the documentation required you can immediately turn to a topic s Section 9 Written Documentation Required If training requirements are the issue simply go to a chapter s Section 12 Training Requirements Also provided for each topic are links to quality background and training information with sample forms and programs where available The guide covers safety and health topics of interest to a wide cross section of industries and businesses The author s relaxed yet focused approach and consistent format allow efficient access to a broad range of occupational health and safety information The topics covered include not only those that are currently regulated but also emerging issues such as injury and illness prevention programs and the rapidly growing field of nanotechnology

Arc Flash Hazard Analysis and Mitigation J. C. Das,2012-08-15 Up to date analysis methodologies and practical mitigation for a major electrical safety concern Arc Flash Hazard Analysis and Mitigation is the first book to focus specifically on arc flash hazards and provide the latest methodologies for its analysis as well as practical mitigation techniques Consisting of sixteen chapters this fully up to date handbook covers all aspects of arc flash hazard calculations and mitigation It addresses the calculations of short circuits protective relaying and varied electrical systems configurations in electrical power systems It also examines protection systems including differential relays arc flash sensing relays protective relaying coordination current transformer operation and saturation and applications to major electrical equipment from the arc flash point of view Current technologies and strategies for arc flash mitigation are explored Using the methodology analysis and preventive measures discussed in the book the arc flash hazard incident energy can be reduced to 8 cal cm² or less for the new and existing electrical distribution systems This powerful resource Features the most up to date arc flash analysis

methodologies Presents arc flash hazard calculations in dc systems Supplies practical examples and case studies Provides end of chapter reviews and questions Includes a Foreword written by Lanny Floyd a world renowned leader in electrical safety who is DuPont s Principal Consultant on Electrical Safety and Technology Arc Flash Hazard Analysis and Mitigation is a must have guide for electrical engineers engaged in design operation and maintenance consulting engineers facility managers and safety professionals

Electrical Inspection Manual with Checklists Noel Williams,Jeffrey S.

Sargent,2014 Packed with precise step by step checklists detailed illustrations and informative chapter explanations the Electrical Inspection Manual 2014 Edition identifies important Code rules and provides guidance on how to organize checklists by occupancy type to increase thoroughness and decrease the likelihood of overlooking potential problems Written by certified electrical inspectors and endorsed by the National Fire Protection Association NFPA and the International Association of Electrical Inspectors IAEI this fully illustrated manual explains significant tasks defines terms outlines key questions and provides a concise overview of the electrical inspection process The training manual is intended to assist electrical inspectors as well as anyone performing a review for Code compliance in advance of a professional inspection This audience may include but is not limited to designers insurance inspectors architects installers project managers and safety officers

CHST Study Guide Mike L Turner,2025-02-11 What if the construction site you work on could be safer more efficient and free from avoidable accidents In an industry where risks are ever present ensuring the health and safety of workers is not just a legal obligation but a moral one This comprehensive guide delves deep into the critical role of health and safety technicians in the construction industry providing invaluable insights for professionals looking to create safer work environments and reduce the number of injuries on site Whether you re a seasoned construction manager a safety officer or just entering the field this book will equip you with the essential tools to identify evaluate and mitigate hazards that pose risks to construction workers From understanding industry regulations to implementing cutting edge safety protocols you ll learn how to tackle challenges like fall protection electrical safety and equipment handling Packed with practical tips step by step guidelines and real world examples this resource highlights the importance of proactive safety measures effective communication and rigorous training programs Discover the importance of proper PPE Personal Protective Equipment learn how to conduct site hazard assessments and gain an in depth understanding of emergency response procedures Not just for safety experts this book also serves as an essential tool for anyone involved in the construction process contractors project managers and site workers alike empowering them to prioritize safety without compromising productivity It emphasizes a culture of safety that integrates seamlessly with daily operations and ensures that every worker goes home in one piece If you re committed to creating a safer construction environment reducing risks and improving overall job site performance this book is your ultimate guide Learn how to make safety a non negotiable priority and transform your construction site into a safer more efficient workplace today

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