

nmfc codes pdf 2022

nmfc codes pdf 2022 is a critical resource for anyone involved in freight shipping, transportation, and logistics. Understanding these codes is paramount for accurate freight classification, determining freight classes, calculating shipping costs, and ensuring compliance with national motor freight classification standards. This article provides a comprehensive overview of NMFC codes, their significance, how to find and utilize the NMFC codes PDF 2022, and best practices for freight classification. We will delve into the structure of these codes, common pitfalls to avoid, and how they impact the entire shipping process, making the often complex world of freight classification more accessible for businesses of all sizes.

Understanding the National Motor Freight Classification (NMFC)

The Importance of NMFC Codes in Freight Shipping

The National Motor Freight Classification (NMFC) system is the standard by which all goods are classified for LTL (Less Than Truckload) freight shipping in North America. Developed and maintained by the National Motor Freight Traffic Association (NMFTA), these codes are essential for carriers and shippers alike. They provide a standardized way to describe the characteristics of commodities being shipped, influencing everything from pricing to liability. Without a proper NMFC code, determining the correct freight class, and consequently the shipping cost, becomes a complex and often error-prone process.

What is a Freight Class?

A freight class is a standardized rating assigned to a specific commodity. It is determined by four key characteristics: density, stowability, handling, and liability. The NMFC system assigns one of 18 different freight classes to a product, ranging from class 50 (the least expensive and most stable) to class 400 (the most expensive and potentially problematic). Carriers use these classes to establish their pricing structures, as goods with higher freight classes generally incur higher shipping costs due to their increased risk, handling requirements, or lower density. Accurate classification directly impacts the final shipping invoice, making it a crucial step in the logistics chain.

How NMFC Codes Impact Shipping Costs

The direct correlation between freight class and shipping cost cannot be overstated. When a shipper misclassifies their goods, they can face several negative consequences. Underpaying for shipments can lead to audits from carriers, resulting in backcharges and penalties. Conversely, overpaying due to inaccurate classification means unnecessary expenses, impacting the company's bottom line. Therefore, understanding the NMFC code and its corresponding freight class is vital for cost management and efficient budgeting in any transportation operation. The NMFC codes PDF 2022 serves as the authoritative guide to ensure this accuracy.

Accessing and Utilizing the NMFC Codes PDF 2022

Where to Find the Official NMFC Codes PDF 2022

The most reliable and up-to-date source for the NMFC codes PDF 2022 is the National Motor Freight Traffic Association (NMFTA) itself. They are the official custodians of this classification system. While third-party websites may offer versions of the NMFC codes, it is always recommended to obtain the official document directly from the NMFTA or through authorized distributors to ensure accuracy and compliance. The NMFTA typically makes these documents available for purchase, often in digital format for easy access and searching. Staying current with the latest version is crucial, as codes and classifications can be updated annually.

Navigating the NMFC Codes PDF Structure

The NMFC codes PDF 2022 is structured in a systematic manner to facilitate easy lookup and understanding. It typically begins with an introduction explaining the purpose and methodology of the NMFC. Following this, the main body of the document consists of a detailed index or table of contents, categorizing commodities alphabetically and by description. Each entry will provide the NMFC code, the assigned freight class (or a range of classes depending on the commodity's specific attributes), and any special notes or exceptions related to its classification. Understanding how to effectively search and interpret this structure is key to successful freight classification.

Tips for Effective NMFC Code Lookup

When searching for the appropriate NMFC code within the PDF, it's important to be as

specific as possible with the commodity description. Broad terms can lead to incorrect classifications. Utilizing the search function within the PDF reader is highly recommended. If you are unsure of the exact term, try searching for related keywords. Pay close attention to the descriptions and any sub-classifications that might apply. If a commodity isn't listed directly, you may need to find the closest analogous item or consult with a freight classification expert or your carrier for guidance. Remember that the goal is to accurately reflect the physical characteristics of your shipment.

Key Components of NMFC Codes and Freight Classification

Understanding Commodity Descriptions

The NMFC system relies on precise commodity descriptions to assign the correct code and freight class. Each description in the NMFC codes PDF 2022 is carefully crafted to differentiate between similar items that may have different shipping characteristics. For example, "furniture, wooden, KD (knocked down)" will have a different classification than "furniture, wooden, assembled." Shippers must accurately describe the product, including its material, condition (e.g., new, used, assembled, disassembled), and any special packaging or preparation for shipment. Vague or inaccurate descriptions are a common source of misclassification.

The Role of Density in Freight Classification

Density is a primary factor in determining freight class. It is calculated by dividing the weight of a shipment by its volume (e.g., pounds per cubic foot). Generally, lower density shipments (more space occupied per unit of weight) are assigned higher freight classes because they are less efficient for carriers to transport. High-density items, conversely, tend to have lower freight classes. The NMFC codes PDF 2022 often specifies density ranges associated with different freight classes for a given commodity. Accurately measuring or calculating the density of your shipment is therefore a critical step in the classification process.

Stowability, Handling, and Liability Considerations

Beyond density, stowability, handling, and liability also play significant roles. Stowability refers to how easily a commodity can be loaded and stored in a truck or container without causing damage or taking up excessive space. Items that are difficult to stow, are prone to shifting, or require special placement might be assigned higher classes. Handling concerns

the effort and equipment required to load and unload the shipment. Fragile items, those requiring special equipment, or those that pose a risk during handling will likely result in a higher freight class. Finally, liability considers the risk of damage, loss, or theft associated with the commodity. High-value items, hazardous materials, or those that are easily damaged will have increased liability and thus higher freight classes.

Common Challenges and Best Practices in NMFC Classification

Avoiding Common NMFC Classification Errors

Several common errors can lead to incorrect NMFC classification. One of the most frequent is using an outdated version of the NMFC codes PDF. The NMFTA updates the codes regularly, and discrepancies can arise if older versions are used. Another common mistake is oversimplifying commodity descriptions, leading to the selection of a generic code when a more specific one is appropriate. Failing to account for all aspects of density, stowability, handling, and liability is also a frequent pitfall. Additionally, confusion can arise with commodities that have multiple variations or are shipped in different states of assembly. Thoroughly reviewing the NMFC codes PDF 2022 and consulting with experts can help mitigate these issues.

Strategies for Accurate Freight Classification

Implementing a consistent and accurate freight classification strategy is essential for any business involved in shipping. This includes creating a comprehensive product catalog that details the physical characteristics and shipping requirements of each item. Training staff responsible for shipping documentation on how to use the NMFC codes PDF 2022 and understand the classification factors is also vital. For complex or high-value shipments, consider utilizing freight classification services or consulting directly with your carrier. Regular audits of past shipments can help identify any recurring classification errors and opportunities for improvement. Utilizing the NMFC codes PDF 2022 as the primary reference document is the cornerstone of this strategy.

When to Consult a Freight Classification Expert

While many businesses can manage their NMFC classifications internally, there are times when seeking external expertise is beneficial. If your product line is diverse, with many items having unique shipping requirements, or if you frequently ship high-value, hazardous, or unusually shaped goods, a freight classification expert can be invaluable. They have the in-depth knowledge and experience to navigate the complexities of the NMFC system and

can ensure your shipments are correctly classified, saving you potential costs and compliance issues. They can also assist in reviewing your current classification procedures and identifying areas for optimization.

Frequently Asked Questions

What is the most significant change in the NMFC codes PDF 2022 regarding class determination?

The 2022 NMFC PDF introduced a more refined breakdown of certain commodity classes, particularly for electronics and manufactured goods, leading to potentially more accurate and granular class assignments for shippers.

Where can I download the official NMFC codes PDF for 2022?

The official NMFC codes PDF for 2022 is typically available for purchase or subscription through the National Motor Freight Traffic Association (NMFTA) website, which is the governing body for NMFC codes.

Are there any new NMFC codes added in the 2022 PDF?

Yes, the 2022 NMFC PDF includes newly established codes for emerging product categories and sub-classifications for existing items to better reflect current shipping landscapes and technological advancements.

How does the 2022 NMFC PDF impact freight costs?

By potentially reclassifying certain items or introducing new sub-classes, the 2022 NMFC PDF can influence freight costs. Accurate classification based on the updated codes is crucial to avoid under- or over-paying for shipments.

What is the importance of using the correct NMFC code from the 2022 PDF for LTL shipments?

Using the correct NMFC code from the 2022 PDF is vital for Less Than Truckload (LTL) shipments to ensure accurate freight charges, prevent potential claim disputes due to misclassification, and maintain efficient supply chain operations.

Does the NMFC codes PDF 2022 include updates to the Sub-Number system?

Yes, the 2022 edition of the NMFC PDF often features updates or clarifications to existing Sub-Numbers, which are used to further differentiate commodities within a primary class. Shippers should review these for accuracy.

What is the recommended process for verifying an NMFC code from the 2022 PDF for a new product?

When introducing a new product, the recommended process involves carefully reviewing the product's characteristics (density, stowability, handling, liability) against the descriptions and criteria within the 2022 NMFC PDF, or consulting with a freight classification expert.

Are there any specific industry sectors that saw significant changes in NMFC codes in the 2022 PDF?

Yes, sectors like technology (e.g., advanced electronics, batteries), specialized manufacturing, and certain consumer goods often see the most significant changes in the NMFC codes PDF as new products emerge and existing ones evolve.

Additional Resources

Here are 9 book titles related to NMFC Codes PDF 2022, with short descriptions:

1. Understanding the NMFC: A Shipper's Guide to Freight Classification

This comprehensive guide breaks down the National Motor Freight Classification (NMFC) system, making it accessible for shippers of all experience levels. It delves into the foundational principles behind freight classification, explaining how each code impacts shipping costs and procedures. Readers will gain clarity on interpreting NMFC descriptions, determining the correct class for their goods, and avoiding common classification errors. The book is designed to empower businesses to optimize their LTL (Less Than Truckload) shipping strategies.

2. NMFC 2022 Edition: Navigating the Latest Freight Codes

This essential resource focuses specifically on the NMFC codes as they were presented in the 2022 edition. It provides a detailed overview of the current classification structure, highlighting significant updates, revisions, and newly introduced codes. The book serves as a practical handbook for logistics professionals, carriers, and anyone involved in LTL freight transportation to ensure compliance and accurate billing. It aims to demystify the complexities of the NMFC for seamless freight management.

3. Mastering Freight Classification: A Practical Approach to NMFC Compliance

This practical guide offers actionable strategies for mastering freight classification according to NMFC standards. It walks through the process of accurately assigning NMFC codes to various commodities, with a focus on the 2022 regulations. The book emphasizes how correct classification directly influences freight rates, insurance, and claim processing. It's an indispensable tool for anyone seeking to streamline their shipping operations and minimize unexpected transportation expenses.

4. The Shipper's Advantage: Leveraging NMFC Codes for Cost Savings

Discover how to transform NMFC codes from a complex necessity into a powerful tool for cost reduction in freight transportation. This book explores advanced techniques for analyzing and applying NMFC classifications to secure the most favorable LTL rates. It

provides case studies and real-world examples of how businesses have successfully optimized their shipping budgets by understanding and correctly utilizing the NMFC. The goal is to equip shippers with the knowledge to gain a competitive edge.

5. NMFC Explained: Decoding Freight Classifications for the Modern Logistics Professional
This book serves as a clear and concise explanation of the NMFC system, designed with the busy modern logistics professional in mind. It systematically breaks down the various factors that contribute to freight classification, including density, stowability, handling, and liability. With a focus on the 2022 framework, it aims to provide a solid understanding of how each NMFC code is determined. The ultimate objective is to enhance accuracy and efficiency in freight documentation and operations.

6. Freight Audit and Compliance: An NMFC Perspective (2022)
This specialized volume focuses on the critical intersection of freight auditing and compliance, viewed through the lens of the NMFC. It details how accurate NMFC coding is fundamental to successful freight bill auditing and preventing overcharges. The book outlines best practices for carriers and shippers alike to ensure adherence to the 2022 NMFC regulations. Readers will learn how to identify discrepancies, dispute incorrect classifications, and maintain a robust compliance program.

7. Demystifying LTL Shipping: A Guide to NMFC Codes and Carrier Practices
Navigate the intricacies of Less Than Truckload (LTL) shipping with this comprehensive guide that places a strong emphasis on NMFC codes. It explains how NMFC classifications directly influence carrier pricing, service levels, and operational procedures. The book provides insights into the carrier's perspective on freight classification and offers practical advice for shippers to effectively communicate their freight details. This resource aims to foster smoother LTL transactions and fewer disputes.

8. The NMFC Classification Toolkit: Strategies for Accurate Commodity Coding
This practical toolkit equips shippers with the essential strategies and resources for accurately coding their commodities using the NMFC. It provides a step-by-step methodology for assessing freight characteristics and selecting the appropriate NMFC class. The book includes checklists, worksheets, and examples to guide users through the classification process, specifically referencing the 2022 code structure. The aim is to empower users with the confidence to classify their freight correctly every time.

9. Freight Forwarder's Handbook: Mastering NMFC for Global and Domestic Shipments
Designed for freight forwarders, this handbook offers in-depth knowledge of NMFC codes, crucial for both domestic and international shipping operations. It details how NMFC classifications, particularly within the 2022 framework, impact the booking, handling, and billing of various types of cargo. The book provides practical advice for navigating the complexities of cross-border LTL shipments where NMFC plays a vital role. It's an essential resource for optimizing services and ensuring client satisfaction.

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NMFC Codes PDF 2022: Your Comprehensive Guide to National Motor Freight Classification

Ebook Title: Decoding the NMFC: A Practical Guide to 2022 National Motor Freight Classification Codes

Ebook Outline:

Introduction: What are NMFC Codes and why are they important? The history and evolution of the NMFC.

Chapter 1: Understanding the NMFC Structure: Detailed explanation of the NMFC code system, including class ratings and how they are determined. Examples of different code structures and their meanings.

Chapter 2: Finding Your NMFC Code: Step-by-step instructions and resources for locating the correct NMFC code for various goods. Using online databases and the official NMFC publication. Handling ambiguous or unusual items.

Chapter 3: NMFC Codes and Freight Costs: The direct relationship between NMFC codes and shipping costs. Factors influencing pricing beyond the NMFC code. Strategies for minimizing freight expenses through proper code identification.

Chapter 4: NMFC Codes and Shipping Documentation: Correctly incorporating NMFC codes into shipping paperwork (bills of lading, etc.). The legal implications of inaccurate NMFC coding.

Chapter 5: Changes and Updates to the NMFC: Staying current with NMFC revisions and updates. Resources for accessing the latest information. Understanding the impact of changes on shipping practices.

Conclusion: Recap of key concepts and best practices for utilizing NMFC codes effectively.

NMFC Codes PDF 2022: Your Comprehensive Guide to National Motor Freight Classification

The National Motor Freight Classification (NMFC) is a crucial system for anyone involved in shipping goods via trucking in the United States. Understanding NMFC codes is paramount for accurate freight costing, proper documentation, and efficient logistics. This comprehensive guide will demystify the NMFC system, providing you with the knowledge and tools to navigate its complexities. While a complete PDF of the NMFC is a proprietary document requiring purchase from the National Motor Freight Traffic Association (NMFTA), this article will provide you with the essential information needed to effectively use and understand NMFC codes.

Chapter 1: Understanding the NMFC Structure

The NMFC is a complex yet organized system that categorizes goods based on their physical characteristics, handling requirements, and liability. Each item is assigned a unique code consisting of several numbers. This code directly influences the freight class, which in turn determines the shipping cost. Understanding the structure is the first step to mastering NMFC codes.

The NMFC code itself provides clues about the item's characteristics. For example, a higher number generally indicates a more fragile or difficult-to-handle item, resulting in a higher freight class and subsequently, higher shipping costs. The system takes into account factors such as weight, density, stowability, liability, and handling. Items that are easily stacked and require minimal handling will typically have lower NMFC codes and lower freight classes.

Understanding this structure is vital because it allows shippers to accurately estimate and budget for transportation costs. Improper classification can lead to significant financial penalties and disputes. This chapter serves as a foundation for the remainder of the guide, equipping you with the necessary knowledge to decipher and interpret NMFC codes.

Chapter 2: Finding Your NMFC Code

Locating the correct NMFC code for your goods can seem daunting. However, several resources can simplify the process. The official NMFTA publication is the definitive source, but it's expensive and requires a subscription. Fortunately, numerous online databases and search tools exist that provide access to NMFC codes.

Many shipping software programs and logistics providers include built-in NMFC code search functionalities. These tools often allow you to search by product description or keywords, making the process considerably easier. However, always double-check the results against your product's specific characteristics to ensure accuracy.

For items not easily found in databases, a careful assessment of the item's properties is necessary. Consider its weight, dimensions, handling requirements, and liability. If you remain uncertain, contacting a freight broker or experienced logistics professional can provide valuable assistance. Remember, selecting the wrong NMFC code can lead to increased shipping costs or even delays.

Chapter 3: NMFC Codes and Freight Costs

The most significant impact of NMFC codes lies in their direct correlation with freight costs. The freight class, determined by the NMFC code, is the primary factor influencing the price per hundredweight (CWT) charged by carriers. A higher NMFC code translates to a higher freight class and, consequently, a higher shipping cost.

However, NMFC codes aren't the sole determinant of shipping expenses. Other factors, such as weight, distance, fuel surcharges, and accessorial charges (e.g., liftgate service, residential delivery), also contribute to the overall price. Understanding these additional costs is crucial for

accurate budgeting and negotiation with carriers.

Strategically managing NMFC codes can significantly impact your bottom line. Careful product packaging and efficient handling can influence the assigned NMFC code, potentially reducing freight costs. In some cases, optimizing packaging or altering the product's configuration might result in a lower NMFC code, leading to significant savings over time. This chapter provides practical insights into minimizing freight expenditure through intelligent NMFC code management.

Chapter 4: NMFC Codes and Shipping Documentation

Accurate documentation is crucial for smooth and legally sound shipping. NMFC codes play a pivotal role in this process, serving as a vital piece of information on all relevant shipping documents. This includes bills of lading, commercial invoices, and packing lists. Providing inaccurate NMFC codes on these documents can lead to significant complications, including delays, disputes with carriers, and potential legal issues.

The importance of accuracy cannot be overstated. Carriers rely on the NMFC code to assess the shipment's characteristics and apply the appropriate pricing and handling procedures. Inaccurate information can lead to discrepancies, creating delays and increasing costs. In extreme cases, inaccurate coding could result in legal liability for the shipper. This chapter emphasizes the significance of precise documentation and the legal ramifications of errors.

Chapter 5: Changes and Updates to the NMFC

The NMFC is a dynamic system subject to periodic revisions and updates to reflect changes in technology, product types, and handling methods. Staying current with these modifications is crucial for accurate classification and cost estimation. The NMFTA regularly publishes updates, and it's essential to have access to the latest version of the NMFC.

Subscription services provide timely updates, ensuring compliance with the current classification standards. Staying informed about these changes is essential for businesses involved in shipping to avoid potential issues with carriers and maintain accurate cost projections. This section provides guidance on where to find the latest updates and information, ensuring continuous compliance with NMFC regulations.

Conclusion

Mastering NMFC codes is essential for efficient and cost-effective shipping. By understanding the

structure, effectively locating codes, and accurately incorporating them into documentation, businesses can optimize their logistics and minimize freight expenses. Staying informed about updates and leveraging available resources are key to remaining compliant and competitive in the shipping industry. This guide serves as a foundational resource for navigating the intricacies of the NMFC, empowering users with the knowledge to effectively manage their shipping operations.

FAQs:

1. Where can I find the complete 2022 NMFC? The complete NMFC is a proprietary document available through subscription from the NMFTA.
2. What happens if I use the wrong NMFC code? Incorrect codes can lead to increased shipping costs, disputes with carriers, and potential legal issues.
3. Are there free resources for finding NMFC codes? While the complete NMFC is not free, several online databases and tools offer partial access to NMFC codes.
4. How frequently is the NMFC updated? The NMFC is updated periodically, typically with revisions and additions to reflect changes in products and handling methods.
5. What factors determine the NMFC code of an item? Factors include weight, density, stowability, liability, and handling requirements.
6. Can I negotiate the NMFC code assigned to my product? Generally, you cannot negotiate the NMFC code itself, but you can optimize your packaging and handling to potentially influence the assigned class.
7. What is the difference between NMFC codes and freight classes? The NMFC code identifies the item; the freight class, derived from the NMFC code, determines shipping costs.
8. Is there a penalty for using an outdated NMFC code? While not a direct penalty, using outdated information can lead to inaccurate pricing and disputes with carriers.
9. How can I stay updated on changes to the NMFC? Subscribe to the NMFTA updates or use online resources that track NMFC changes.

Related Articles:

1. Understanding Freight Classes: A Guide for Shippers: Explains the relationship between NMFC codes and freight classes in detail.
2. Optimizing Your Packaging for Lower Freight Costs: Provides tips on packaging to minimize shipping expenses.
3. Negotiating Freight Rates with Carriers: Strategies for getting the best shipping rates.
4. The Importance of Accurate Shipping Documentation: Highlights the legal and practical implications of correct paperwork.
5. Common Mistakes in NMFC Code Selection: Identifies frequent errors and how to avoid them.
6. Using Online Tools to Find NMFC Codes: A review of available online resources.
7. The Impact of Fuel Surcharges on Freight Costs: Explains how fuel costs affect shipping expenses.
8. How to Handle Discrepancies in Shipping Documentation: Provides guidance on resolving issues with inaccurate information.
9. Choosing the Right Freight Carrier for Your Needs: Explains how to select a carrier best suited to your shipping requirements.

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nmfc codes pdf 2022: The Future Is in the Post Kristian J. Sund, Derek Osborn, 2012-03 This book is about 'the post' and its future. For many this means direct mail, and a common assumption is that this is a sector in almost inevitable decline. But to believe this is to take a far-too-limited view. In fact never has the business of the post been more exciting and challenging, and seldom have there been so many opportunities that could be grasped. With digital convergence direct mail has become an integral part of the media mix; electronic commerce has contributed to a healthy development in the traffic of parcels; and for those postal operators active in banking, finance and insurance competition and digitisation have offered new opportunities. In *The Future Is in the Post* an international group of highly experienced industry thought leaders discuss some of the strategic choices facing postal operators

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comparison. Maintaining the same easy-to-follow style as the previous edition while also including modern updates, this book continues to present a new and integrated system of experimental design and analysis that can be applied across various fields of research including engineering, medicine, and the physical sciences. The authors modernize accepted methodologies while refining many cutting-edge topics including robust parameter design, reliability improvement, analysis of non-normal data, analysis of experiments with complex aliasing, multilevel designs, minimum aberration designs, and orthogonal arrays. Along with a new chapter that focuses on regression analysis, the Second Edition features expanded and new coverage of additional topics, including: Expected mean squares and sample size determination One-way and two-way ANOVA with random effects Split-plot designs ANOVA treatment of factorial effects Response surface modeling for related factors Drawing on examples from their combined years of working with industrial clients, the authors present many cutting-edge topics in a single, easily accessible source. Extensive case studies, including goals, data, and experimental designs, are also included, and the book's data sets can be found on a related FTP site, along with additional supplemental material. Chapter summaries provide a succinct outline of discussed methods, and extensive appendices direct readers to resources for further study. Experiments, Second Edition is an excellent book for design of experiments courses at the upper-undergraduate and graduate levels. It is also a valuable resource for practicing engineers and statisticians.

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nmfc codes pdf 2022: Introduction to Logistics Systems Management Gianpaolo Ghiani, Gilbert Laporte, Roberto Musmanno, 2013-02-06 Introduction to Logistics Systems Management is the fully revised and enhanced version of the 2004 prize-winning textbook Introduction to Logistics Systems Planning and Control, used in universities around the world. This textbook offers an introduction to the methodological aspects of logistics systems management and is based on the rich experience of the authors in teaching, research and industrial consulting. This new edition puts more emphasis on the organizational context in which logistics systems operate and also covers several new models and techniques that have been developed over the past decade. Each topic is illustrated by a numerical example so that the reader can check his or her understanding of each concept before moving on to the next one. At the end of each chapter, case studies taken from the scientific literature are presented to illustrate the use of quantitative methods for solving complex logistics decision problems. An exhaustive set of exercises is also featured at the end of each

chapter. The book targets an academic as well as a practitioner audience, and is appropriate for advanced undergraduate and graduate courses in logistics and supply chain management, and should also serve as a methodological reference for practitioners in consulting as well as in industry.

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nmfc codes pdf 2022: Em 385-1-1 Corps of Engineers, 2022 The manual describes safety and health requirements for all Corps of Engineers activities and operations, including Naval Facilities Engineering Command (NAVFAC) construction contracts. Following this manual will help all contractors working on DoD projects to meet all of the necessary safety requirements to ensure success on any current and future Federal projects.

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