

NCCER/OSHA Scaffold -Examination with
Well Detailed Question & Answers
Perfectly A+ Grade (Newest Updated
Version)

1. The footing or anchorage for scaffolds must be capable of carrying the maximum intended load without: **ANSWER>>>>Tying or guying**
2. Erectors of a scaffold who exposed to potential falling object hazards shall be provided with: **ANSWER>>>>Over head protection**
3. Osha requires a rest landing at intervals not exceed: **ANSWER>>>>35 feet**
4. The top handrail of a scaffold must be able to withstand how many pounds of pressure? **ANSWER>>>>200**

Nccer Study Guide Scaffold

NCCER Staff



Nccer Study Guide Scaffold:

Core Curriculum Guide 2001 NCEER Staff,2000-08-21 **Scaffolding** NCCER Staff,National Center for Construction Education and Research,1999-10 This exceptionally produced trainee guide features a highly illustrated design technical hints and tips from industry experts review questions and a whole lot more Key content includes Introduction to the Trade Trade Safety Trade Tools and Equipment Trade Math Stationary Scaffolds Mobile Scaffolds and Suspension Scaffolds Instructor Supplements Instructors Product supplements may be ordered directly through OASIS at <http://oasis.pearson.com> For more information contact your Pearson NCCER Contren Sales Specialist at <http://nccer.pearsonconstructionbooks.com/store/sales.aspx> Instructor s Guide Paperback 0 13 014877 6 Computerized Testing Software 0 13 015514 4 Transparency Masters 0 13 015507 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 **Scaffolding** NCCER Staff,1999-10 **Scaffolding Trainee Guide, Level 1** NCCER,2015 This exceptionally produced trainee guide features a highly illustrated design technical hints and tips from industry experts review questions and a whole lot more Key content includes Introduction to the Trade Trade Safety Trade Tools and Equipment Trade Math Stationary Scaffolds Mobile Scaffolds and Suspension Scaffolds **Industrial Painting Trainee Guide** NCCER Staff,National Center for Construction Education and Research (U.S.),1998-12 This exceptionally produced trainee guide features a highly illustrated design technical hints and tips from industry experts review questions and a whole lot more Key content includes Safety Ladders Scaffolds Lifts and Fall Protection Containment Ventilation Surface Preparation One Surface Preparation Two Surface Preparation Three Industrial Coatings Coatings Applications and Equipment Quality Inspections Coatings Failures and Analysis and Specialty Materials Instructor Supplements Instructors Product supplements may be ordered directly through OASIS at <http://oasis.pearson.com> For more information contact your Pearson NCCER Contren Sales Specialist at <http://nccer.pearsonconstructionbooks.com/store/sales.aspx> Instructor s Guide Paperback 0 13 910126 8 Instructor s Guide Binder 0 13 910134 9 Computerized Testing Software 0 13 012559 8 Transparency Masters 0 13 012554

Recognizing the exaggeration ways to get this books **Nccer Study Guide Scaffold** is additionally useful. You have remained in right site to start getting this info. acquire the Nccer Study Guide Scaffold connect that we come up with the money for here and check out the link.

You could buy lead Nccer Study Guide Scaffold or get it as soon as feasible. You could speedily download this Nccer Study Guide Scaffold after getting deal. So, in the same way as you require the books swiftly, you can straight get it. Its suitably unquestionably simple and fittingly fats, isnt it? You have to favor to in this circulate

<https://crm.allthingsbusiness.co.uk/files/scholarship/fetch.php/Peugeot%2050cc%20Owners%20Manual.pdf>

Table of Contents Nccer Study Guide Scaffold

1. Understanding the eBook Nccer Study Guide Scaffold
 - The Rise of Digital Reading Nccer Study Guide Scaffold
 - Advantages of eBooks Over Traditional Books
2. Identifying Nccer Study Guide Scaffold
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nccer Study Guide Scaffold
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nccer Study Guide Scaffold
 - Personalized Recommendations
 - Nccer Study Guide Scaffold User Reviews and Ratings
 - Nccer Study Guide Scaffold and Bestseller Lists
5. Accessing Nccer Study Guide Scaffold Free and Paid eBooks

- Nccer Study Guide Scaffold Public Domain eBooks
- Nccer Study Guide Scaffold eBook Subscription Services
- Nccer Study Guide Scaffold Budget-Friendly Options
- 6. Navigating Nccer Study Guide Scaffold eBook Formats
 - ePub, PDF, MOBI, and More
 - Nccer Study Guide Scaffold Compatibility with Devices
 - Nccer Study Guide Scaffold Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nccer Study Guide Scaffold
 - Highlighting and Note-Taking Nccer Study Guide Scaffold
 - Interactive Elements Nccer Study Guide Scaffold
- 8. Staying Engaged with Nccer Study Guide Scaffold
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nccer Study Guide Scaffold
- 9. Balancing eBooks and Physical Books Nccer Study Guide Scaffold
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nccer Study Guide Scaffold
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nccer Study Guide Scaffold
 - Setting Reading Goals Nccer Study Guide Scaffold
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nccer Study Guide Scaffold
 - Fact-Checking eBook Content of Nccer Study Guide Scaffold
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Nccer Study Guide Scaffold Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Nccer Study Guide Scaffold PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers

individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Nccer Study Guide Scaffold PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Nccer Study Guide Scaffold free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Nccer Study Guide Scaffold Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Nccer Study Guide Scaffold is one of the best book in our library for free trial. We provide copy of Nccer Study Guide Scaffold in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Nccer Study Guide Scaffold. Where to download Nccer Study Guide Scaffold online for free? Are you looking for Nccer Study Guide Scaffold PDF? This is definitely going to save you time and cash in something you should think about.

Find Nccer Study Guide Scaffold :

[peugeot 50cc owners manual](#)

[petrus en zijn graf te rome](#)

[peter kents city across time](#)

[pettibone serial number guide](#)

[peugeot 206 tyre owners manual](#)

[peugeot 406 diesel owners manual 96](#)

[persuasion classics hardcover hardcover classics](#)

peugeot 405 td manual

[peugeot 406 uk service manual](#)

personal recommendation letter for a friend

[pet vet collection cranky motorbike](#)

peugeot 407 hdi owners manual 2 5

perspective sketching freehand and digital drawing techniques for artists & designers

peugeot 306 1993 1995 repair service manual

[petit journal mon b b colorier](#)

Nccer Study Guide Scaffold :

wild born audiobook written by brandon mull downpour com - Apr 23 2022

web sep 10 2013 1 new york times bestseller brandon mull launches scholastic s brand new multiplatform phenomenon four children separated by vast distances all undergo

[wild born scholastic](#) - Aug 08 2023

web br igga n given a choice conor would not have picked to spend the most important birthday of his life helping devin trunswick get dressed in all honesty he would not

wild born by brandon mull frugal bookstore - Mar 23 2022

web description details 1 new york times bestseller brandon mull launches scholastic s brand new multiplatform phenomenon four children separated by vast distances all

spirit animals book 1 wild born library edition mull brandon - May 25 2022

web sep 10 2013 1 new york times bestseller brandon mull launches scholastic s wildly popular multiplatform phenomenon

four children separated by vast distances all

spirit animals book 1 wild born read aloud revival - Dec 20 2021

web 1 new york times bestseller brandon mull launches scholastic s wildly popular multiplatform phenomenon four children separated by vast distances all undergo the

wild born spirit animals book 1 by mull brandon very - Feb 19 2022

web aug 3 2006 free shipping isbn 9780545522434 first edition hardcover scholastic incorporated 2013 condition very good former library book may

s discussion questions for spirit animals 1 wild born by - Jun 06 2023

web spirit animals 1 wild born by brandon mull in the world of erdas four children discover their spirit animal bonds rare and powerful links between human and beast these four

wild born book by brandon mull thriftbooks - May 05 2023

web buy a cheap copy of wild born book by brandon mull from 1 new york times bestselling author brandon mull comes spirit animals an epic book series that leaps

wild born 1 worldcat org - Jan 21 2022

web author brandon mull summary four children separated by vast distances all undergo the same ritual watched by cloaked strangers four flashes of light erupt and from them

wild born spirit animals book 1 volume 1 mull brandon - Aug 28 2022

web 1 new york times bestseller brandon mull launches scholastic s wildly popular multiplatform phenomenon four children separated by vast distances all undergo the

wild born audiobook written by brandon mull - Jun 25 2022

web 1 new york times bestseller brandon mull launches scholastic s brand new multiplatform phenomenon four children separated by vast distances all undergo the

wild born by brandon mull spirit animals 1 bookroo - Mar 03 2023

web 1 new york times bestseller brandon mull launches scholastic s wildly popular multiplatform phenomenon four children separated by vast distances all undergo the

spirit animals book 1 wild born library edition mull brandon - Sep 28 2022

web 1 new york times bestseller brandon mull launches scholastic s wildly popular multiplatform phenomenon four children separated by vast distances all undergo the

wild born spirit animals book 1 1 ses cd si amazon com tr - Jul 27 2022

web 223 99 tl ciltli kapak223 99 tl 3 yeni başlangıç fiyatı 223 99 tl 1 new york times in en çok satan brandon mull scholastic

in yepyeni çok platformlu olgusunu piyasaya

wild born by brandon mull audiobook urbanaudiobooks com - Nov 18 2021

web sep 10 2013 1 new york times bestseller brandon mull launches scholastic s brand new multiplatform phenomenon four children separated by vast distances all undergo

wild born by brandon mull fictiondb - Sep 09 2023

web wild born brandon mull in the world of erdas four children are about to discover if they have a spirit animal a rare bond between human and beast that gives great powers

wild born by brandon mull publishers weekly - Jan 01 2023

web buy this book wild born brandon mull scholastic 12 99 224p isbn 978 0 545 52243 4 mull the beyonders books kicks off the multiplatform spirit animals series with

wild born 2013 edition open library - Apr 04 2023

web wild born by brandon mull 2013 scholastic incorporated edition in english brandon mull wild born close an edition of wild born 2013 wild born by brandon mull 0

wild born by brandon mull overdrive ebooks audiobooks and - Oct 10 2023

web sep 10 2013 from 1 new york times bestselling author brandon mull comes spirit animals an epic book series that leaps from the page into a riveting online game

spirit animals 1 wild born scholastic shop - Jul 07 2023

web the first book in a series from 1 new york times bestselling author brandon mull comes spirit animals an epic book series that leaps from the page into a riveting online game

wild born spirit animals book 1 audio download brandon mull - Oct 30 2022

web wild born spirit animals book 1 audio download brandon mull nicola barber scholastic audio amazon com au books

wild born book 2013 worldcat org - Feb 02 2023

web get this from a library wild born brandon mull as a dark force engulfs the land the fate of erdas has fallen on the shoulders of four young strangers who each have forged a

wild born spirit animals wiki fandom - Nov 30 2022

web wild born is the first book in the first series written by brandon mull from left to right conor rollan essix meilin abeke briggan uraza and jhi are depicted on the cover

march 25 2013 dm 59 s 2013 results of the 2012 national - Nov 27 2021

web aug 16 2023 download and install the nat philippines results 2013 by deped it is enormously simple then before currently we extend the partner to buy and make

national achievement test expanded nat e results for - May 14 2023

web jan 10 2014 national achievement test expanded nat e results for 2012 2013 deped mandaluyong

nat philippines results 2013 by deped - Nov 08 2022

web nat philippines results 2013 by deped april 30th 2018 the national citizens movement for free elections april 2018 04 27 2018 04 27 2018 04 26 2018 04 26 2018

bes nat result 2013 google sites - Jul 16 2023

web nat result 2013

nat philippines results 2013 by deped - Jul 04 2022

web dec 28 2019 04 00 pm by merlina hernando malipot the quality of education in the country was put under the spotlight in 2019 following the results of both local and international

nat philippines results 2013 by deped - Dec 29 2021

web mar 25 2013 you are here deped memoranda march 25 2013 dm 59 s 2013 results of the 2012 national qualifying examination for school heads nqesh

december 13 2013 dm 222 s 2013 department of education - Sep 18 2023

web december 13 2013 dm 222 s 2013 administration of school year sy 2013 2014 national achievement test nat test of english proficienct for teachers tept and

nat result 2013 deped catanduanes - Aug 17 2023

web 2013 national assessment test for grade six certificate of rating 2013 national assessment test for grade six division performance

year end report deped in 2019 the quest for quality - Jun 03 2022

web nat philippines results 2013 by deped nqesh principal s examination test 2015 online reviewer responsibility deped antipolo responsibility deped april 27th 2018

philippine national achievement test 2013 nat schedule - Jan 10 2023

web the results unveiled different zones most susceptible to the incidence of both hazards as well as their main contributing factors furthermore the results revealed that the

nqesh 2013 results released philnews - Jan 30 2022

web sep 16 2023 nat philippines results 2013 by deped namfrel deped bataan department of education division of bataan 10 reasons why the k to 12 program

nat philippines results 2013 by deped mintxx - Apr 01 2022

web the philippines national basketball team in 2013 was led by head coach chot reyes the national team finished second at

the 2013 fiba asia championship gaining one of the
nat philippines results 2013 by deped grant wiggins 2023 - Oct 27 2021

2013 national achievement test nat scheduled - Feb 11 2023

web feb 5 2013 coverage of nat the examination is designed to determine the students academic strengths and weaknesses though the five key major subjects mathematics

2013 philippines men s national basketball team results - Feb 28 2022

web mar 30 2013 nqesh 2013 results released march 30 2013 by ed umbao in news the national qualification examination for school heads or nqesh for 2012

nat philippines results 2013 by deped lia erc gov ph - Apr 13 2023

web nat philippines results 2013 by deped responsibility deped antipolo april 29th 2018 city schools division of antipolo edukasyong tapat at sapat dapat para sa lahat

nat philippines results 2013 by deped 2022 - Dec 09 2022

web nat philippines results 2013 by deped deped bataan department of education division of bataan april 29th 2018 the department of education regional office iii seeks to

nat philippines results 2013 by deped edms ncdmb gov ng - May 02 2022

web nat philippines results 2013 by deped united by our commitment to serve the public through ensuring quality education for everyone we teachers parents students

nat philippines results 2013 by deped - Oct 07 2022

web accumulated between 2002 and 2013 covering diverse aspects of college impact including cognitive and moral development attitudes and values psychosocial change

deped releases nat results sunstar - Jun 15 2023

web oct 10 2023 deped releases nat results 294765 july 27 2013 a a tacloban city the city division of the department of education deped announced the

nat philippines results 2013 by deped download only - Mar 12 2023

web nat philippines results 2013 by deped oecd food and agricultural reviews agricultural policies in the philippines jan 07 2022 this report analyses philippine agricultural

nat philippines results 2013 by deped pdf pdf - Aug 05 2022

web nat philippines results 2013 by deped updated program flow for completion moving up and deped bataan department of education division of bataan education in the

nat philippines results 2013 by deped pdf - Sep 06 2022

web may 2 2023 deped in the philippines a set of standardized tests addressing the major subjects taught in school is an example these tests are given to grade 3 where students

kone lce elevator wiki fandom - Oct 14 2023

web resolve 200 is a series of kone lce for modernisations in europe it can be used on elevators with a speed between 0.1 m/s hydraulic 0.3 m/s traction and 1 m/s travel 8 hydraulic 16 traction floors and or 30 m hydraulic 70 m traction and operate with 3 elevators in a set 3

kone monospace elevator wiki fandom - Dec 04 2022

web kone monospace is the machine room less traction elevator product line of kone giantkone and macgregor kone the version of monospace for low rise installations in the united states is called kone ecospace and it is a replacement for hydraulic elevators since kone discontinued making hydraulic elevators in 2007 although the ecospace

tools and brochure downloads kone singapore - Jul 11 2023

web our easy to use tools and informative downloads support you throughout the lifecycle of your building you can create elevator specifications design a car interior and read

kone minispace elevator wiki fandom - Sep 01 2022

web kone minispace is kone's compact mini machine room traction elevator model produced since 1998 kone minispace is a gearless traction elevator model for mid to high rise buildings launched in 1998 it only requires 40% of the space of a conventional traction elevator machine room which saves building space reduces construction costs and

ecospace has evolved kone u.s. - May 09 2023

web efficient installation the kone monospace 300 dx elevator is a turn key solution optimized for low rise construction space saving like kone ecospace the kone monospace 300 dx solution does not need a separate machine room and gives back more leasable space connected the kone monospace 300 dx features enabled connectivity

kone traction elevators in singapore youtube - Feb 06 2023

web feb 18 2017 these elevators used to be otis with series 1 fixtures elevator brand koneelevator group size tbacapacity 1360 kg 20 personsfloors served 1 4 7 24h

giantkone innovative technology - Aug 12 2023

web kone's exclusive lce modular control system creates smart brain and robust nervous system for the elevator products the individual components are closely connected with each other through the lon network making the elevator operation accurate and flexible adaptable to the technology development at present or future and

passenger lift kone dx smart elevator kone singapore - Jun 10 2023

web discover the new kone dx smart elevator for passenger lifts with built in connectivity to future proof your building and deliver a redefined user experience

elevators escalators and automatic doors kone corporation - Mar 07 2023

web together with our building door and other solutions including access and destination control elevators and escalators they help people move around your building safely comfortably and without waiting find out more about the solutions available in your country on your local kone website

the machine room less elevator kone s monospace - Apr 08 2023

web impressive results kone monospace elevators powered by the kone ecodisc hoisting motor consume less energy than other gearless elevators kone ecodisc also creates less thermal losses than traditional machines which brings direct savings in cooling and ventilation costs the eco efficient kone ecodisc hoisting system

kone elevator company in singapore kone singapore - Sep 13 2023

web kone is a world renowned elevator escalator company in singapore we offer premium elevator escalator services from installation to upgrades contact us now

introduction to kone lce electrical schematic diagram en - Jan 05 2023

web introduction to kone elevator products kone monospace mrl kone mono kone s mono kone n mono kone e mono transysm type of traction ecodisc mx06 nmx07 mx10 nmx11 mx20 permanent magnet machine synchronous disc motor control system lce elevator control system with high speed computing capability

lce traction elevator kone data northitalia com - Jul 31 2022

web lce traction elevator kone 5 5 hold in large american cities while gaining much slower acceptance in european cities like paris and berlin combining technological and architectural history with the literary and cinematic bernard opens up new ways of looking at the elevator as a secular confessional when stalled between floors

kone kcm 831 lce traction monospace elevator forum - Oct 02 2022

web jul 14 2012 because thats the position i m in kone removed from a job and the company i m with jumping on their misfortune my problem is programing these phones when a call is placed from the elevator a lady awnsers very rudely commeting this phones are no longer being monitured

talk kone lce elevator wiki fandom - May 29 2022

web as nowadays these big elevator companys can buy third party electrification such as micolift and step nobody knows kone will offer their homemade lce controller or cheap chinese controller to customers from this

kone traction elevator 191 new bridge road sg youtube - Nov 03 2022

web a nice kone m elevator in a building in chinatown while the nearby lucky chinatown shopping arcade have had its touch

sensitive kone m elevators modernized

kone as a elevator escalator company kone singapore - Feb 23 2022

web as a global leader in the elevator and escalator industry kone provides elevators escalators and automatic building doors as well as solutions for maintenance and modernization which add value to the life cycle of any building

kone traction scenic elevator lucky plaza singapore exterior - Apr 27 2022

web mar 7 2017 this elevator used to be an old hitachi elevator elevator brand koneelevator group size 1 capacity 1000 kg 15 persons floors served b1 1 6 history mod

kone combispace elevator wiki fandom - Jun 29 2022

web kone combispace is a machine room modernisation elevator model for existing buildings these elevators can range from low to mid rise 2 16 it runs on the lce controller like almost all kone models have viskaripolku 3 härkämäki turku finland former 1979 valmet schlieren mariankatu 21

elevator market size worth 120 91 billion globally by - Mar 27 2022

web nov 10 2023 global elevator market scope report coverage details market size value in usd 71 43 billion in 2022 market size value by usd 120 91 billion by 2030 growth rate cagr of 6 8 from 2022 to 2030