

**NICKELTON TOWNSHIP**



**NICKELTON  
TOWNSHIP**

**FIREWORKS  
SAFETY  
TRAINING  
Public Education**



**DEV INSTRUCTIONAL DESIGN**

Instructional Design and E-learning Development

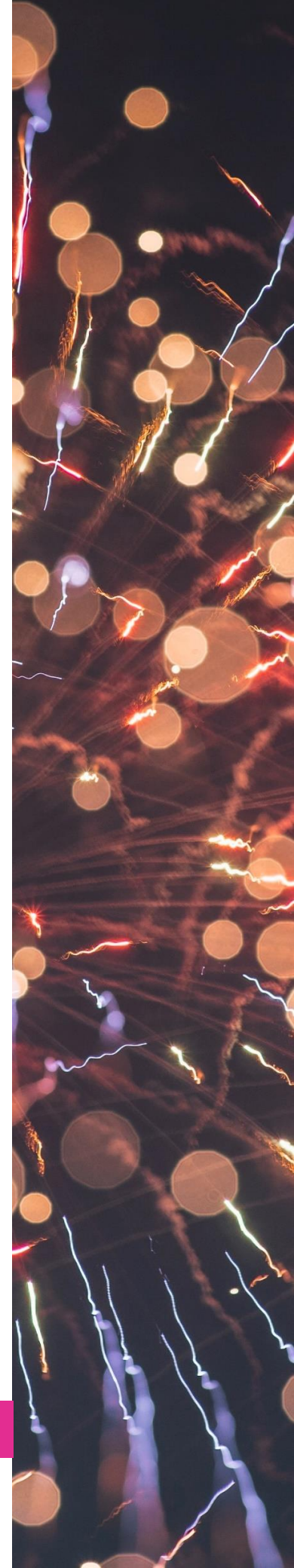
# PROJECT CONTEXT

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## BACKGROUND

Nickelton Township is a quiet and peaceful suburb by the seashore of New Jersey, US. Even though being known as one of the sophisticated and safe neighborhoods, there have been complaints of illegal fireworks recently. There were incidents of homes catching fire, people blowing off their body parts, getting seriously injured, and ending up in the hospital while using the fireworks. These incidents are reported after the state of New Jersey lifted the full ban on the use of fireworks and permitted the personal use of non-ariel and novelty fireworks.

This necessarily means that the residents haven't fully comprehended the ban as per the New Jersey Explosives and Fireworks Act - N.J.S.A. 21:2-1 et seq. and the amendments made to it recently. The office of the mayor of the township is concerned about the fireworks-related mishaps and wants to get the residents to understand the ban and educate them to encourage safe use or discourage any use of fireworks if possible. This will not only make Nickelton a safer township to live in but also will help to attract more citizens to Nickelton.



# PROJECT CONTEXT

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## PURPOSE

The purpose of this public education is to help the Nickelton residents understand the ban on fireworks as per New Jersey Explosives and Fireworks Act - N.J.S.A. 21:2-1 et sec., as amended by P.L.2017, C.92. Understanding the ban will help them make safe use of fireworks so that the accidents and damages due to incorrect and illegal use of fireworks can be avoided.

The training will also help to educate the residents of all age groups regarding how they can enjoy safe fireworks and the steps to be followed if they observe people getting involved in malpractices or flouting the ban in their surroundings.

## END OBJECTIVE

The end objective of this public education is to increase mass awareness of the ban on fireworks as per the New Jersey Explosives and Fireworks Act - N.J.S.A. 21:2-1 et sec., as amended by P.L.2017, C.92. in order to reduce the use of illegal fireworks by 80%. It also aims to reduce firework-related hospital admissions in Nickelton township by 95% within one year.





# PROJECT REQUIREMENTS

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## PROJECT REQUIREMENTS

**Project Budget:** \$10,000. Training must be low-cost. Township doesn't have the budget to purchase licenses for any new learning technologies.

**Delivery Timeline:** Delivery of training should be up to 1 year. The project can start rolling out as early as May 2022. That does mean, there are approx. 8 months for planning and preparation.

**Learners:** The entire population of 27,000 comprises all the age groups to be covered.

**Accessibility:** The training should be built considering the accessibility needs of all the residents, especially, those above the age of 65 years.

**Diversity, equity, and inclusion:** Diversity, equity, and inclusion must be considered as communication must reach all the residents. There are people from different cultures and races residing in the township.

**Technology:** The township has access to basic technology – email, SMS, popular social media channels, and the township website.



# LEARNING REQUIREMENTS

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## AUDIENCE PROFILE

### Nature and Attitude:

There are around 27,000 residents in Nickelton township. Residents are metropolitan NYC professionals and their families who like to have a peaceful, relaxing, and homely space at the end of the day by the seashore after an extremely busy daytime. However, they are also keen to socialize and like to show up at town events.

### Age:

The audience comprises of all age groups. The age-wise division is as below:

Age	% Population	Total Count
Between 5 to 17 years of age	15.00%	4050
Between 18 to 65 years of age	59.20%	15,984
65 years of age and above	20.60%	5,562

### Culture and race:

Culturally, Nickeltonians are a group of a diverse population. In the township, 82.3% are white Americans, 8.9% are Black or African Americans, and the rest 8.8% of the population comprises races like American Indian, Asian, Hawaiian, Hispanic, and others.





# LEARNING REQUIREMENTS

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## LEARNING ENVIRONMENT

Learning needs are different for learners of different age groups.

### **Learners of age group (5 to 17 years)**

For this age group, schools are the best place to learn. There are some of the top schools in the nation in Nickelton. Township supervisors could approach schools' management and in collaboration with the schools organize sessions on Firework Safety for each class.

### **Learners of age group (18 to 65 years)**

This age group is comfortable with technology. However, the township does not have the budget for using any learning technologies for online learning. Under such circumstances, a live workshop at Nickelton townhall is the optimal solution. The fact that Nickeltonions are keen to socialize and like to show up in township events will be of an advantage here.

### **Learners of age group (above 65 years)**

This age group also likes to socialize and meet friends subject of their health conditions and their interests. Attending a live workshop in the town hall will be optional to them, though highly encouraged. Firework Safety booklets will be delivered to their homes for every learner of this age group.



# LEARNING OBJECTIVES

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## LEARNING OBJECTIVES

By the end of the training, this age group of learners will be able to –

- identify the permitted fireworks and prohibited fireworks for personal use as per the New Jersey Explosives and Fireworks Act and its recent amendment
- understand why it is not safe to make use of prohibited fireworks
- list the firework safety tips to be followed while lighting fireworks
- know which actions to take when they notice someone in the locality making inappropriate or unsafe use of fireworks
- know which actions to take when they notice someone in the locality getting involved in unlawful practices regarding fireworks use, sale, or possession



# LEARNING OBJECTIVES

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## PERFORMANCE GOALS

### Learners of the age group 5 to 17 years

- Learners should physically attend all four 'Fireworks Safety' sessions in the class
- Learners must take an online assessment through the school's Learning Management System

### Learners of the age group 18 to 65 years

- Learners should physically attend the live 'Fireworks Safety' workshop in the townhall
- Learners must take an online assessment embedded on the township website

### Learners of the age group 65 years and above

- Learners are highly encouraged to physically attend the live 'Fireworks Safety' workshop in the townhall
- Learners are highly encouraged to take an online assessment embedded on the township website
- Learners are highly encouraged to read the 'Firework Safety' booklet; more so if 'Fireworks Safety' live workshop is not already attended





# INSTRUCTIONAL STRATEGY

## For the learners of the age group 5 to 17 years

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Training sessions for these learners consist of two parts. The first part consists of classroom instruction and, the second part consists of collaborative instructional activities.

### Part I. Classroom Instruction

- Four classroom sessions for each class from 1<sup>st</sup> to 12<sup>th</sup> will be conducted on the topic of firework safety. The schoolteachers will be trained and appropriately compensated by township management for this purpose
- Topics covered in those four sessions will be –
  - Session 1: Hazards of unsafe use of fireworks
  - Session 2: Permitted & prohibited fireworks
  - Session 3: Fireworks safety tips
  - Session 4: Actions against unsafe or illegal use of fireworks
- All four sessions will be designed based on the theory of Gagne's Nine Events of Instructions
- Each session will be 1 hour long
- For class 1st to 4th, facilitator instructions will be for 30 minutes, and for the next 30 minutes, learners will need to fill up colors in the drawing book based on the theme of fireworks safety. The facilitation material and drawing books will also be provided by the township



# INSTRUCTIONAL STRATEGY

## For the learners of the age group 5 to 17 years

- For class 5<sup>th</sup> to 12<sup>th</sup>, the division of 1-hour sessions will be as below –

Session	Classroom Instruction	Activity Prep and Planning	Activity Performance	Summary/ Conclusion
Session 1	15 mins	10 mins	30 mins (Group Discussion)	5 mins
Session 2	20 mins	10 mins	25 mins (Quiz)	5 mins
Session 3	15 mins	10 mins	25 mins (Role Play)	5 mins
Session 4	20 mins	10 mins	30 mins (Essay Writing)	-

### Part II. Instructional Activities

- For class 5<sup>th</sup> to 12<sup>th</sup>, instructional strategies such as – Group Discussion, Quiz, Role Plays, and Essay Writing are used as a method for reinforcement and retention
- Following McClelland’s Theory of Needs, extrinsic motivation is used to engage learners with training participation by offering learners ‘The Certificate of Participation’ only if all four sessions are attended

### Media Used

- The facilitation material for classroom instruction will be in the form of PowerPoint slides and videos. The township will provide this material
- The correspondence regarding the details of instructional activities will be sent to the schoolteachers over the school email ids.



# ASSESSMENT STRATEGY

## For the learners of the age group 5 to 17 years

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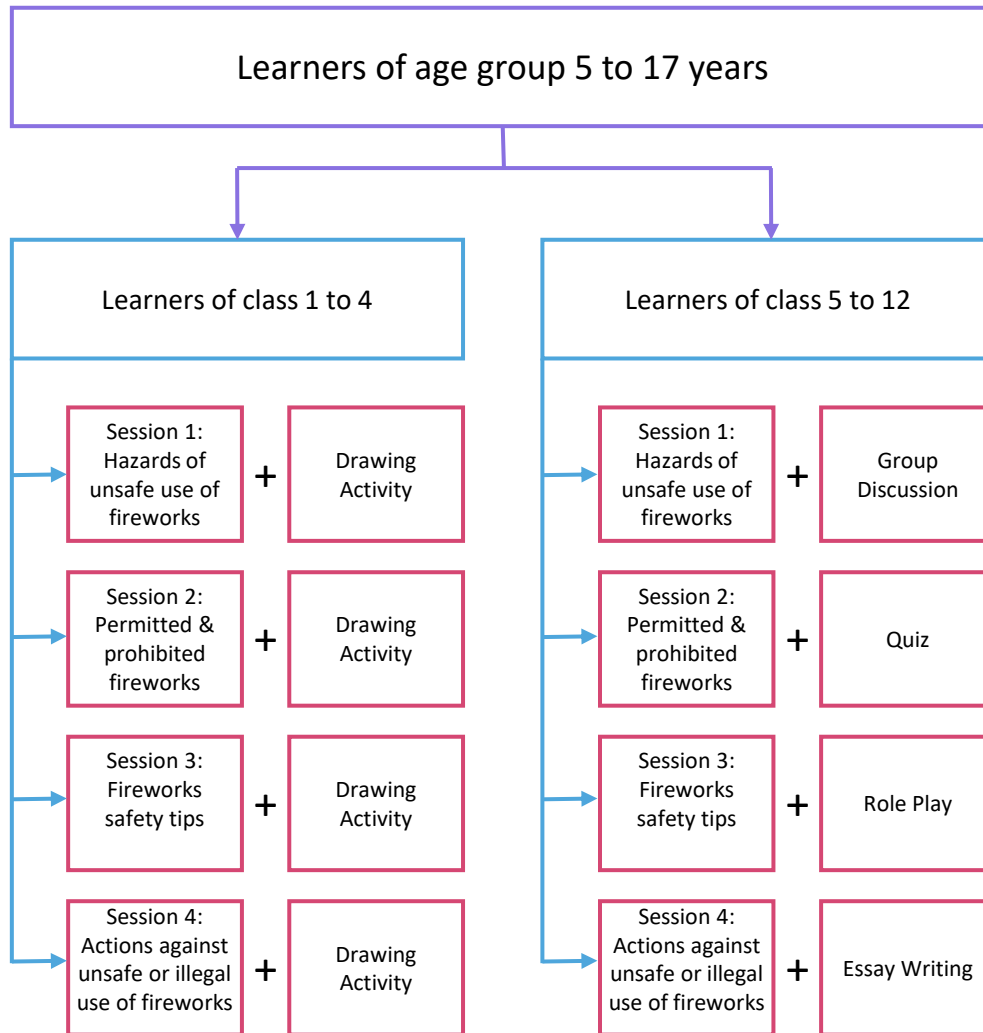
- The assessment for these learners will be online and will be conducted using the school's Learning Management System. The assessment will be graded, and the learners will have 30 minutes to complete it
- The assessment will be a mix of scenario-based questions and multiple-choice questions
- The schedule for taking the assessment will be communicated using the student's portal
- The assessment will carry 10 marks and will be evaluated as a part of the final school project for each class. This is a part of extrinsic motivation used to ensure a high level of involvement and participation from the learners
- Class 1 to 4 students are exempt from any assessments.





# TRAINING SESSION OUTLINE

For the learners of the age group 5 to 17 years



# INSTRUCTIONAL STRATEGY

## For the learners of the age group 18 to 65

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- The training workshop on 'Fireworks Safety' will be a live event
- The workshop will be 1 hour long
- The workshop will be based on the theory of Gagne's Nine Events of Instructions
- The attendance will be marked for all the learners attending the workshop
- The workshop will be divided into five sections-
  - Section 1: Introduction
  - Section 2: Hazards of unsafe use of fireworks
  - Session 3: New Jersey Explosives and Fireworks Act
  - Session 4: Fireworks safety tips
  - Session 5: Actions against unsafe or illegal use of fireworks
  - Section 6: Q and A
  - Section 7: High Tea

### Media Used

- The PowerPoint slides will be used to conduct the workshop.



# ASSESSMENT STRATEGY

## For the learners of the age group 18 to 65

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- The assessment for these learners will be online and will be conducted using the township's website. The assessment will be graded, and the learners will have 30 minutes to complete it
- The assessment will be a mix of scenario-based questions and multiple-choice questions
- Those who have attended the live workshop are only eligible to take the online assessment
- The login information for the online assessment will be provided to each learner at the live workshop
- The learners will be able to take the assessment at their own convenience within 48 hours of attending the live session by just clicking on the link ([ClassMarker](#)) given on the website and entering the login details
- Every week a winner is announced on the website. The participant who has attended the live workshop and scored full marks in assessment in the least amount of time is awarded 100\$ gift voucher from the township. This is part of motivation strategy for the learners in order to gain maximum participation.





# INSTRUCTIONAL STRATEGY

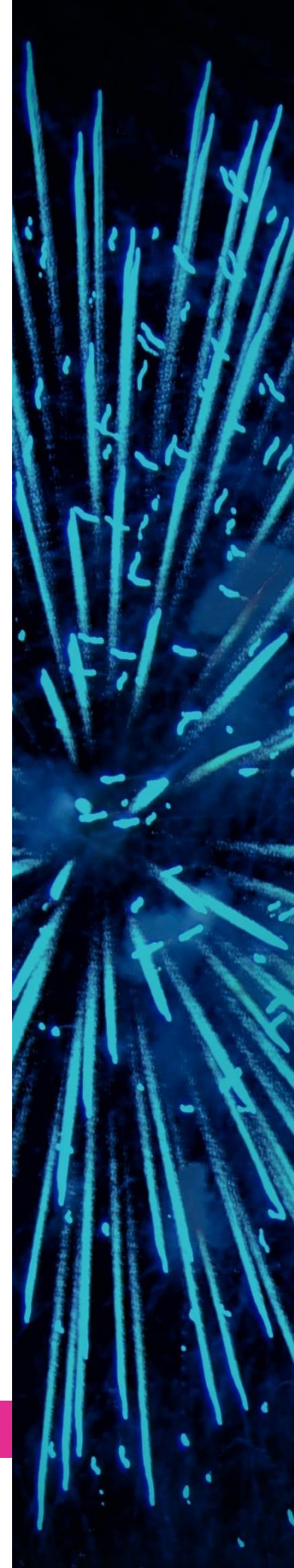
## For the learners of the age group 65 and above

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- The learners of the age group 65 years and above are highly encouraged to physically attend the training workshop on 'Fireworks Safety', although it is not mandatory
- The booklet on fireworks safety will be provided to these learners which will be designed taking into account their accessibility needs
- The booklets will be delivered to their respective residence by post. The learners are encouraged to go through the booklets at their own time and convenience

### Media Used

- The PowerPoint slides will be used to conduct the workshop
- The booklets will be paper-based

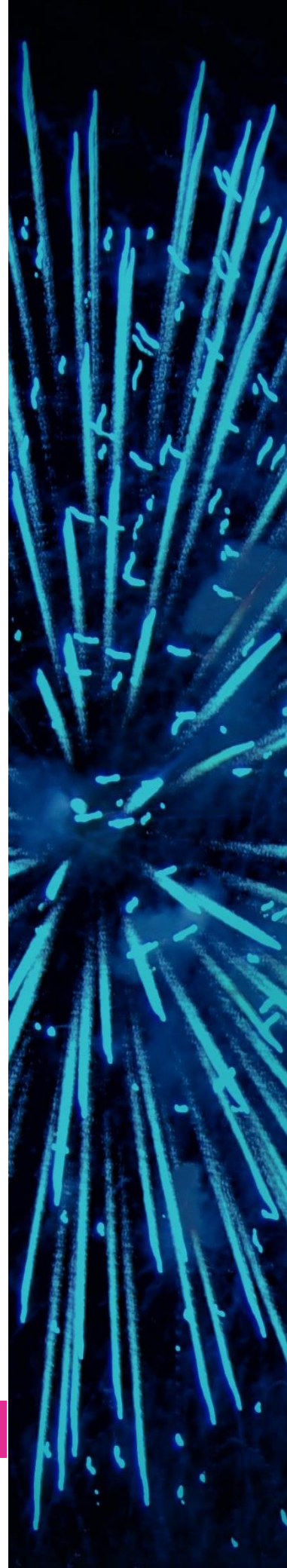


# ASSESSMENT STRATEGY

## For the learners of the age group 65 and above

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- The learners of the age group 65 years and above are highly encouraged to take the online assessment on the township's website, although it is not mandatory
- The login information for the online assessment will be provided in the booklet
- Those who have not attended the live workshop are also eligible to take the online assessment after receiving the booklet. Thereafter, the learners will be able to take the assessment at their own convenience anytime by just clicking on the link ([ClassMarker](#)) given on the website and entering the login details
- The assessment will be a mix of scenario-based questions and multiple-choice questions
- Every week a winner is announced on the website. The participant who has attended the live workshop and scored full marks in assessment in the least amount of time is awarded a 100\$ gift voucher from the township. This is part of the motivation strategy for the learners in order to gain maximum participation.



# TRAINING SESSION OUTLINE

For the learners of the age group 18 and above

## Fireworks Safety Workshop (1.5 hours)

1. Introduction (5 mins)

2. Hazards of  
unsafe use of fireworks (5 mins)

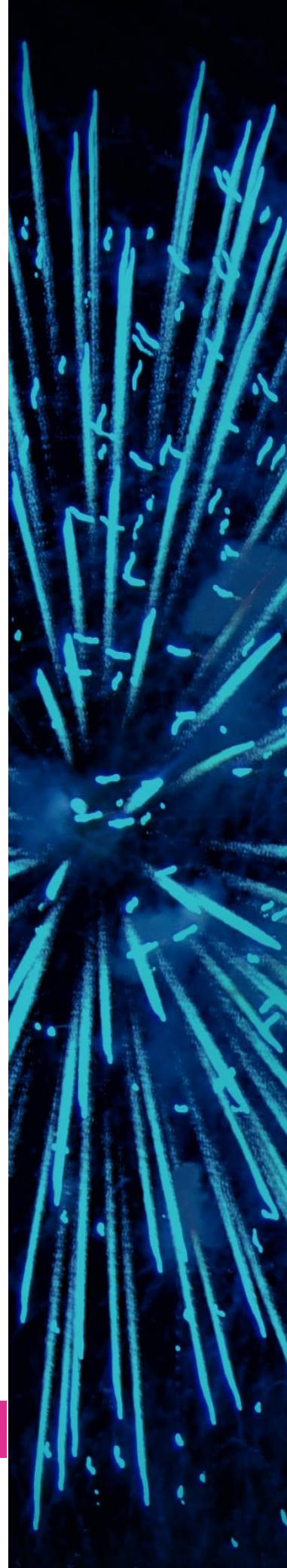
3. Permitted & prohibited fireworks (15 mins)

4. Fireworks safety tips (15 mins)

5. Actions against unsafe or illegal use of  
fireworks (10 mins)

6. Q and A (10 mins)

7. High Tea (30 mins)





# DEVELOPMENT TOOLS

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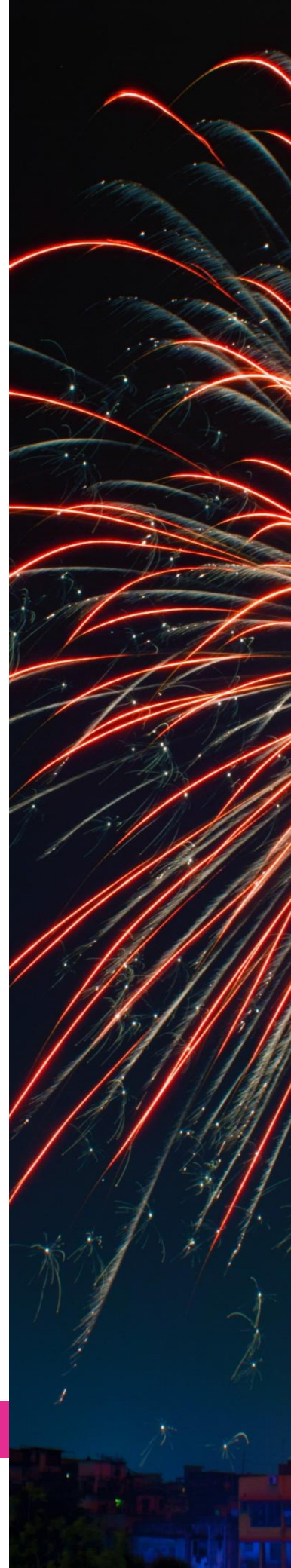
**Presentation Slides:** Microsoft PowerPoint

**Photos:** Unplash, Pexels, Pixabay

**Graphics/ Vectors:** Canva

**Video:** Vyond

**Booklet Design:** Canva



# PROJECT SIGN-OFF SHEET

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**Project Name:** Fireworks Safety Training

**Project Manager:** Devolina Deshmukh

**Start Date:** 01/05/2022

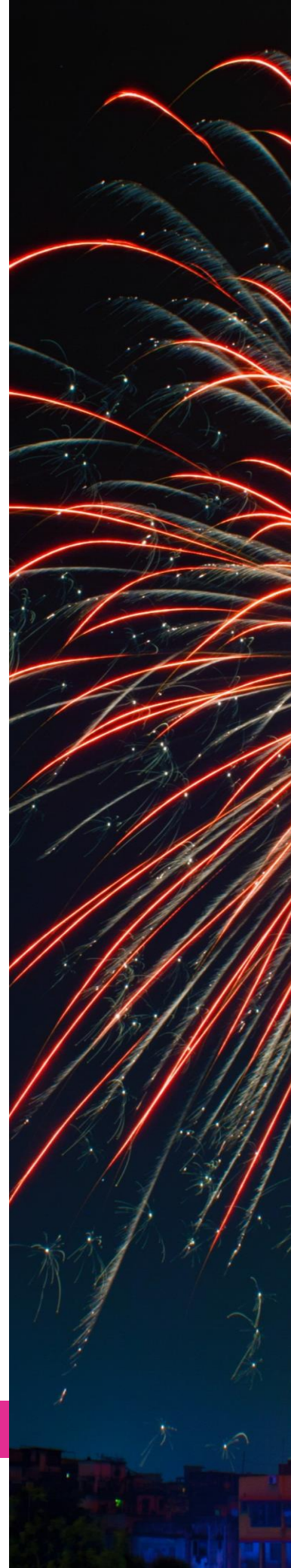
**Completion Date:** 01/05/2023

**Project Duration:** 1 year

**Budget:** \$10,000

**Sponsor/Client:** Nickelton Township, Office of the Mayor

**Needs Analysis:** Nickelton township comprises of large retiree-aged population. In order to attract a younger population, there is a need to improve the ranking of Nickelton Township as the ' Best places to live in NJ '. One of the major reasons for lower ranking is the illegal use of fireworks and fireworks-related accidents in the township. There has been an increase in accidents after NJ recently legalized the use of non-aerial and novelty fireworks for personal use after many years of a full ban. This shows residents do not completely understand the ban and need to be educated regarding it.



# PROJECT SIGN-OFF SHEET

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**Project Goal:** Create a Fireworks safety training for the residents of the Nickelton township so that they understand and abide by NJ Explosive and Fireworks Act. The training should eventually reduce fireworks-related accidents and hospitalizations.

**Evaluation of Results:** The Fireworks safety training has helped the residents understand the new ban as per NJ Fireworks and Safety Act and has helped reduce illegal firework use by 90%. Also, there were no fireworks-related hospitalizations reported.

**Project Manager Name:** Devolina Deshmukh (Instructional Designer)

**Project Manager Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

*By signing this document, I acknowledge that I have delivered the project goal and agreed to the quality levels.*

**Client Name:** Estelle, Liaison to the Mayor of Nickleton Township

**Client Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

*By signing this document, I acknowledge that I have received the project goal and it adheres to the quality levels.*





# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

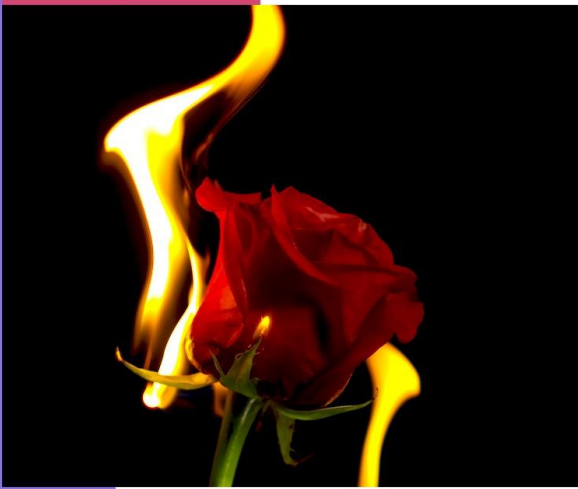
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**Fireworks  
Safety  
Workshop**

Let us not turn a celebration into a tragedy!

Can you describe how the serious burn feels to the body?



# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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It is way a BEYOND imagination!

3

## The Consumer Product Safety Commission Study (2019)

73% of all fireworks injuries were sustained during the 30-day period surrounding the Independence Day holiday.



4





# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## The Consumer Product Safety Commission Study (2019)

10,000 injuries occurred nationwide due to fireworks, most often with burns to the hands, fingers, legs and head, including to the eyes, face, and ears.



5

## The Consumer Product Safety Commission Study (2019)

Sparklers are the number one cause of injuries and nearly half of those reported injuries involved kids under the age of 5.



6





# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

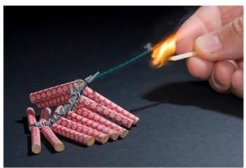

## The Consumer Product Safety Commission Study (2019)

There were 12 reported deaths.

A close-up photograph of a person's hand holding a lit candle. The flame is bright yellow and white, and the hand is illuminated by the light of the candle against a dark background.

7

## The Consumer Product Safety Commission Study (2019)

<p>Severe and fatal injuries</p>	<p>Professional grade and homemade fireworks</p>  A close-up photograph of a hand lighting a firework. The firework is a bundle of sticks with a lit fuse, and the hand is holding a lit match to it.	<p>12 reported deaths</p>	<p>Illegal devices.</p>  A photograph of a box of fireworks. The box is open, and several fireworks are visible inside. The fireworks are wrapped in colorful paper, and the box is filled with them.
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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION



FIRE

**Apart from injuries,  
which other harm can  
fireworks cause?**

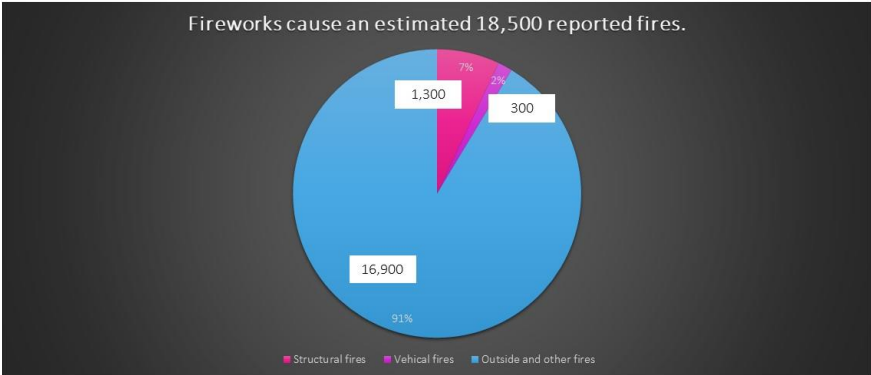
On Independence Day in a typical year, far more U.S. fires are reported than on any other day, and fireworks account for two out of five of those fires, more than any other causes of fire.





# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

## As Per The National Fire Protection Association



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## Damage due to fire



3 deaths



40 civilian injuries

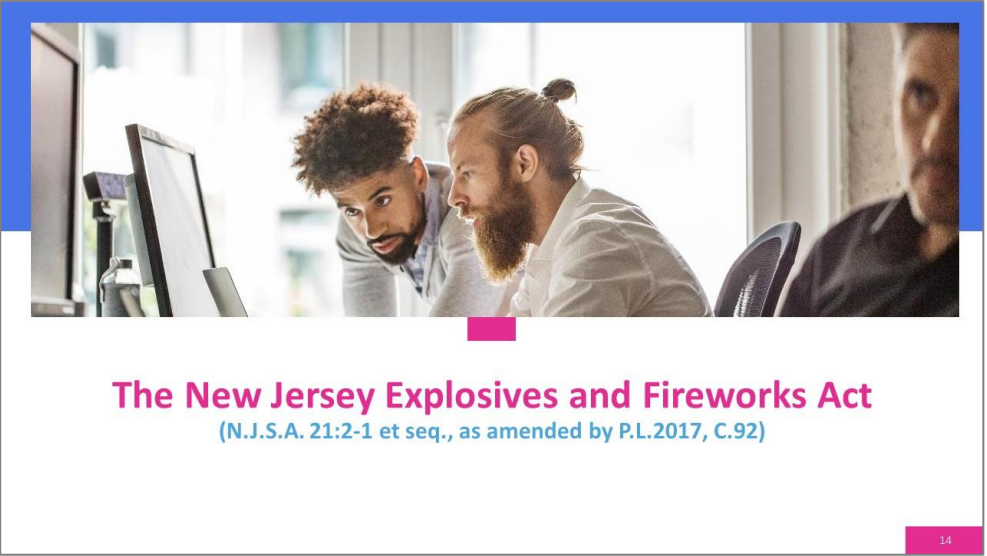
\$43 million property damage





# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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1

It is unlawful to sell, offer for sale, possess, or use fireworks

anywhere in the State without a valid permit

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However, recent changes to the law now permit persons 16 years of age or older to lawfully buy, possess and use certain sparkling devices and novelties.



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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Permissible Fireworks



Hand-held or ground based sparklers

## Permissible Fireworks



Snakes and glow worms





# FIREWORKS SAFETY WORKSHOP

## POWERPOINT PRESENTATION

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### Permissible Fireworks



Smoke devices

### Permissible Fireworks



Party poppers



# FIREWORKS SAFETY WORKSHOP


## POWERPOINT PRESENTATION

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### Permissible Fireworks



Snappers and drop pops



**The sale, possession and use of all other fireworks requires a valid permit.**





# FIREWORKS SAFETY WORKSHOP

## POWERPOINT PRESENTATION

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2

### The valid permit must be issued by any municipality

after receiving an application in writing and the posting of a bond, for the display of fireworks, by municipalities, religious, fraternal or civic organizations, fair associations, amusement parks, or other organizations or groups of individuals approved by the municipality.

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The chiefs of the police and fire departments must approve the permit.

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# FIREWORKS SAFETY WORKSHOP

## POWERPOINT PRESENTATION

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4

**An identification number and the specific type of fireworks to be used must be stated on the permit.**

The permit shall name one person who shall be authorized to purchase, or otherwise order, and receive delivery of any fireworks.

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5

**A person is guilty of a crime of the fourth degree**

If he or she sells, offers or exposes for sale, or possesses with intent to sell, any fireworks, other than sparkling devices and novelties to persons 16 years of age or older.

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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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6

## **A person is guilty of a petty disorderly person's offense**

If he or she purchases, uses, discharges, causes to be discharged, ignites, fires or otherwise sets in action, or possesses fireworks without having the required permit.

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7

**Any business that advertises, offers to sell or sells fireworks to residents of New Jersey is required to clearly and conspicuously disclose that fireworks, other than sparkling devices and novelties, are illegal to possess or use in New Jersey without a valid permit.**

Failure to do so would constitute a violation of the New Jersey Consumer Fraud Act and its regulations.

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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Fireworks Safety Tips

30



What safety tips do you follow?



# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Fireworks Safety Tips

Never allow young children to play with or ignite fireworks.



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## Fireworks Safety Tips

Avoid buying fireworks that are packaged in brown paper because this is often a sign that the fireworks were made for professional displays and that they could pose a danger to consumers.



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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Fireworks Safety Tips

Always have an adult supervise fireworks activities. Parents don't realize that young children suffer injuries from sparklers. Sparklers burn at temperatures of about 2,000 degrees - hot enough to melt some metals.



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## Fireworks Safety Tips

Never place any part of your body directly over a fireworks device when lighting the fuse. Back up to a safe distance immediately after lighting fireworks.



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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Fireworks Safety Tips

Never try to re-light or pick up fireworks that have not ignited fully.



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## Fireworks Safety Tips

Never point or throw fireworks at another person.



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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Fireworks Safety Tips

Keep a bucket of water or a garden hose handy in case of fire or other mishap.



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## Fireworks Safety Tips

Make sure fireworks are legal in your area before buying them or using them.



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# FIREWORKS SAFETY WORKSHOP

## POWERPOINT PRESENTATION

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### Fireworks Safety Tips

Light fireworks one at a time, then move back quickly.



39

### Fireworks Safety Tips

Never carry fireworks in a pocket or shoot them off in metal or glass containers.



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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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## Fireworks Safety Tips

After fireworks complete their burning, douse the spent device with plenty of water from a bucket or hose before discarding it to prevent a trash fire.



41



We have a **SURPRISE** for  
you Nickeltonions!!

Any Guesses?

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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION



ARE YOU READY!

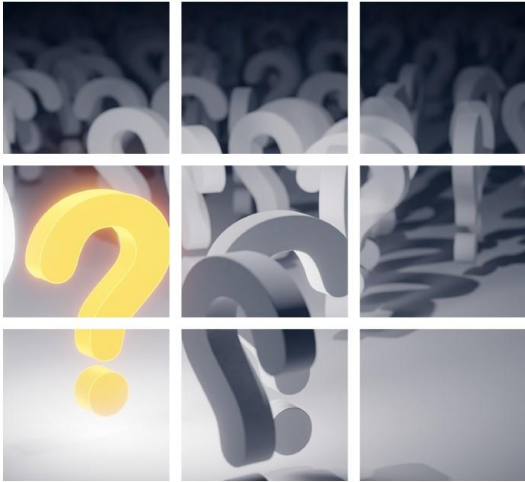
A Professional Fireworks Display



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Questions?



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# FIREWORKS SAFETY WORKSHOP POWERPOINT PRESENTATION

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