



**DOCKET ITEM**

**For the**

**SPECIAL INVESTIGATION REPORT**

**Safety Risks to Emergency Responders from Lithium-Ion Battery Fires in Electric Vehicles**

**SURVEY RESPONSES on HYBRID ELECTRIC and ELECTRIC VEHICLES**

**From the**

**Survey of Fire Departments Conducted by IAFC and NVFC**

**February 6, 2018**

(73 pages)



**The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .**

- Tuesday, February 06, 2018

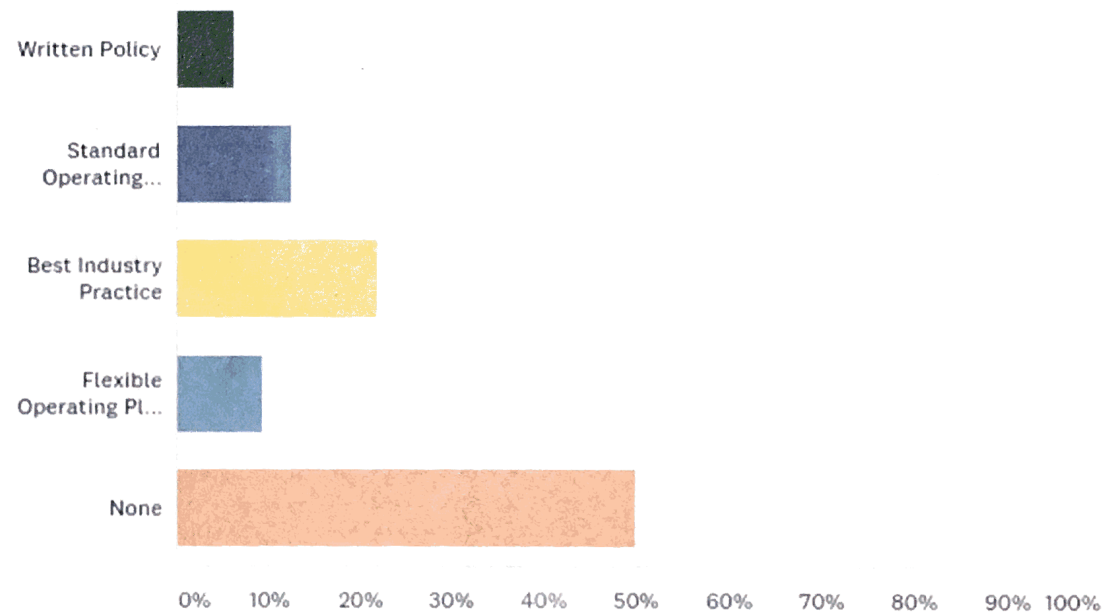


- Total Responses **32**
- Date Created: Thursday, January 11, 2018
- Complete Responses: 31



# Q1: What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

- Answered: 32
- Skipped: 0



# Q1: What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

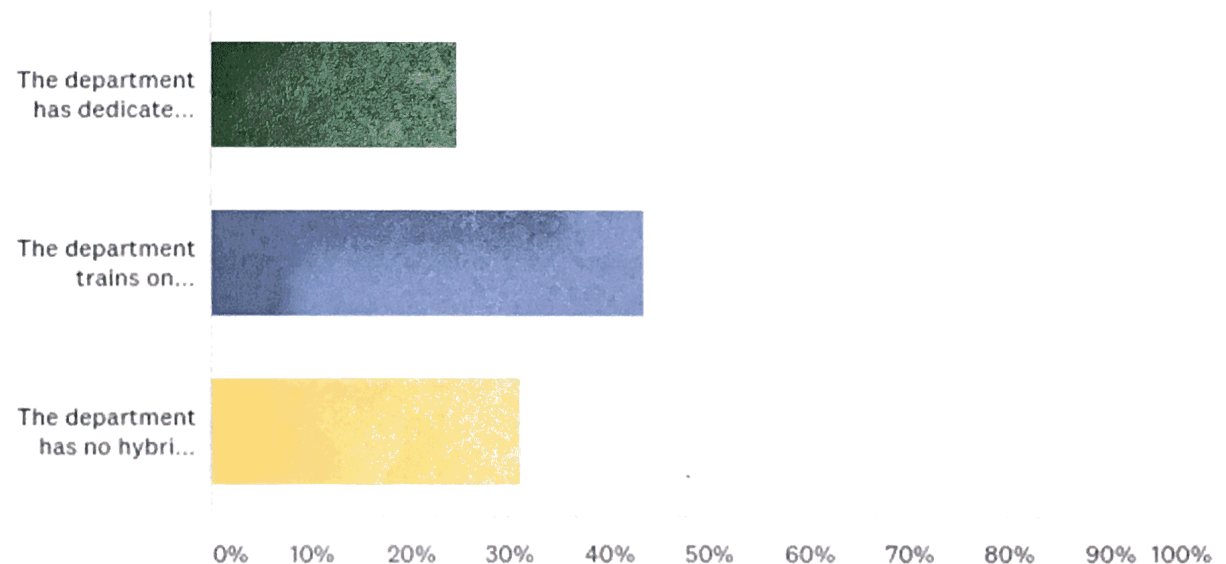
- Answered: 32 Skipped: 0

ANSWER CHOICES	RESPONSES	
Written Policy	6.25%	2
Standard Operating Procedures (SOPs)	12.50%	4
Best Industry Practice	21.88%	7
Flexible Operating Plans (FOPs)	9.38%	3
None	50.00%	16
TOTAL		32



## Q2: What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

- Answered: 32  
Skipped: 0



## Q2: What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

- Answered: 32  
Skipped: 0

### ANSWER CHOICES

The department has dedicated training specific to these types of incidents.

The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.

The department has no hybrid electric/electric vehicles incident training.

TOTAL

### RESPONSES

25.00% 8

43.75% 14

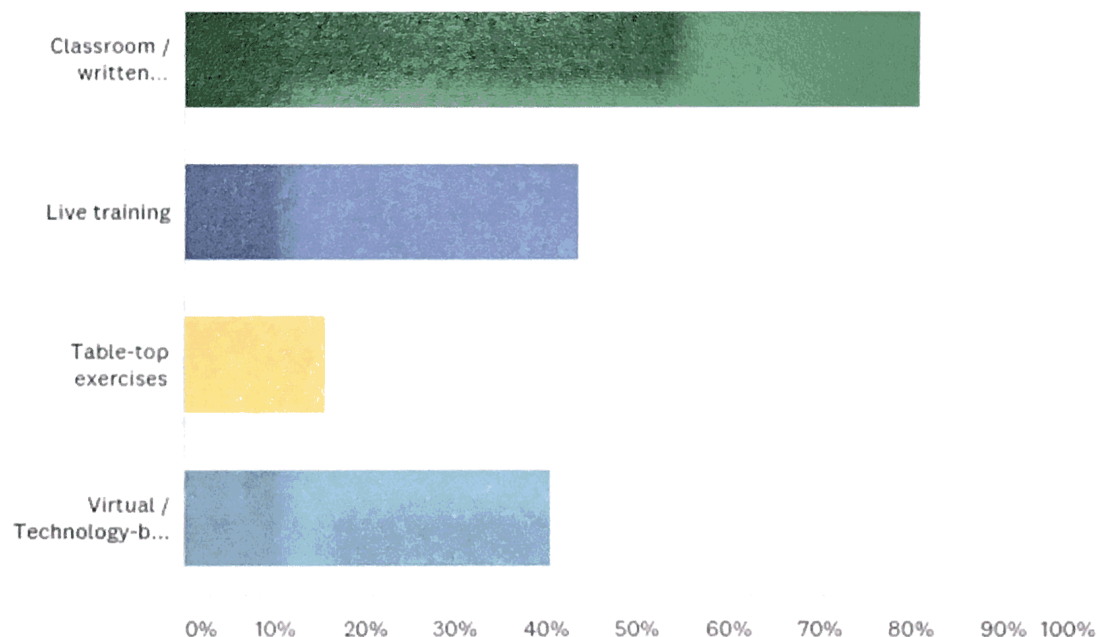
31.25% 10

32



### Q3: If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

- Answered: 32  
Skipped: 0





# Q3: If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

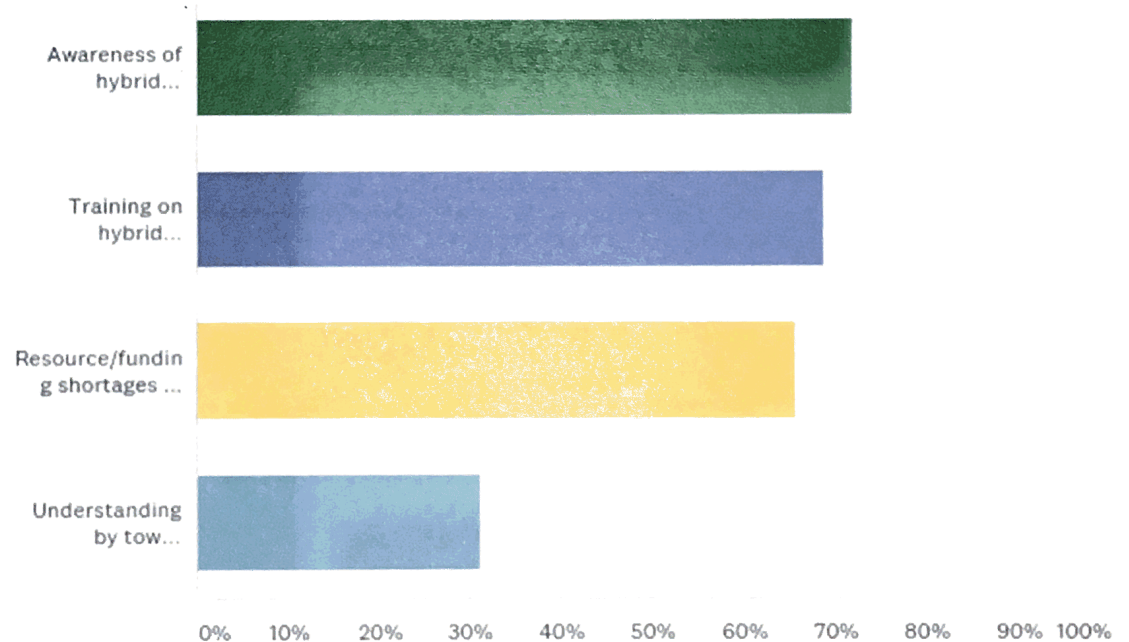
- Answered: 32 Skipped: 0

ANSWER CHOICES	RESPONSES	
Classroom / written training	81.25%	26
Live training	43.75%	14
Table-top exercises	15.63%	5
Virtual / Technology-based training	40.63%	13
Total Respondents: 32		



# Q5: What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

- Answered: 32  
Skipped: 0



# Q5: What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

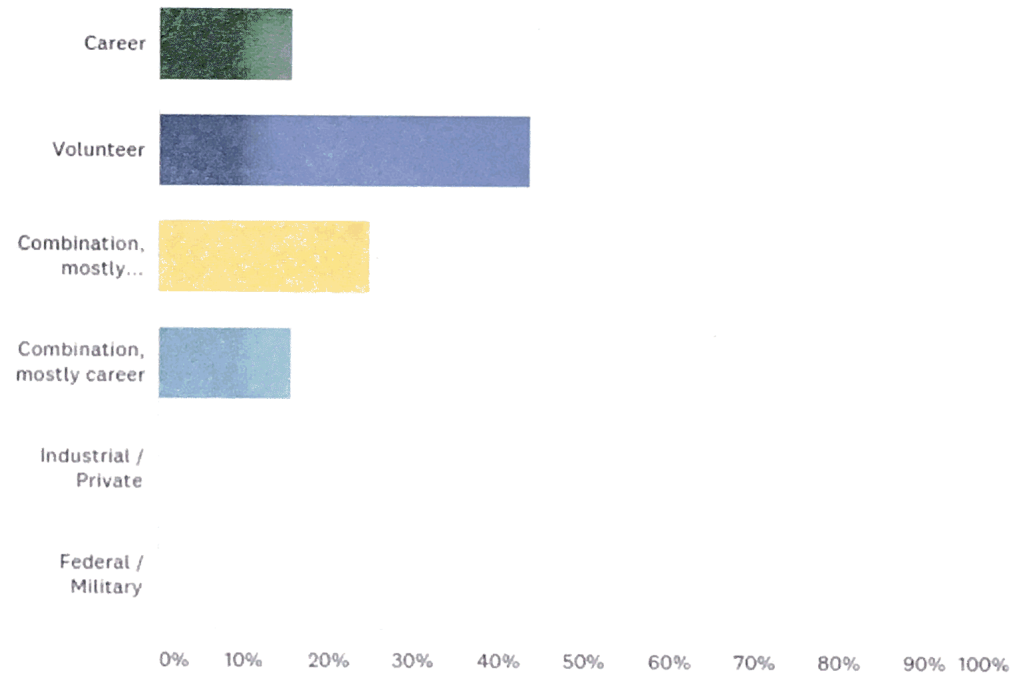
- Answered: 32 Skipped: 0

ANSWER CHOICES	RESPONSES	
Awareness of hybrid electric/electric vehicles	71.88%	23
Training on hybrid electric/electric vehicles	68.75%	22
Resource/funding shortages to training/respond to hybrid electric/electric vehicles	65.63%	21
Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles	31.25%	10
Total Respondents: 32		



## Q6: What is your department type?

- Answered: 32
- Skipped: 0



## Q6: What is your department type?

- Answered: 32  
Skipped: 0

ANSWER CHOICES	RESPONSES	
Career	15.63%	5
Volunteer	43.75%	14
Combination, mostly volunteer	25.00%	8
Combination, mostly career	15.63%	5
Industrial / Private	0.00%	0
Federal / Military	0.00%	0
TOTAL		32



#1

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Friday, January 12, 2018 6:33:38 PM  
**Last Modified:** Friday, January 12, 2018 6:38:32 PM  
**Time Spent:** 00:04:53  
**IP Address:** 69.243.79.192

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Standard Operating Procedures (SOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**

**Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	City of Fairfax
City/Town:	Fairfax
State/Province:	VA
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

## #2

### COMPLETE

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 16, 2018 1:03:40 PM  
**Last Modified:** Tuesday, January 16, 2018 1:06:42 PM  
**Time Spent:** 00:03:02  
**IP Address:** 74.58.191.39

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**

**Table-top exercises**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

0

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Training on hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2



**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	Beaupre FD
City/Town:	Beaupre
State/Province:	Quebec
Country:	Canada
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

### #3

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 16, 2018 7:26:23 PM  
**Last Modified:** Tuesday, January 16, 2018 7:29:08 PM  
**Time Spent:** 00:02:44  
**IP Address:** 50.80.159.100

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training** ,  
**Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

motor vehicle crashes, vehicle fires involving hybrid.

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Training on hybrid electric/electric vehicles** ,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

**Respondent skipped this question**

## #4

### COMPLETE

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 16, 2018 8:19:22 PM  
**Last Modified:** Tuesday, January 16, 2018 8:23:02 PM  
**Time Spent:** 00:03:40  
**IP Address:** 216.123.207.67

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles** ,  
**Training on hybrid electric/electric vehicles** ,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles** ,  
**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type? **Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	Fort Saskatchewan
City/Town:	Fort Saskatchewan
State/Province:	Alberta
Country:	Canada
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

## #5

### COMPLETE

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 17, 2018 2:47:59 AM  
**Last Modified:** Wednesday, January 17, 2018 2:53:24 AM  
**Time Spent:** 00:05:25  
**IP Address:** 46.144.61.244

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Flexible Operating Plans (FOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Live training,**

**Other not listed (please specify):**

**by using the Crash Recovery system for a save approach**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

**VW hybride with a termal runaway battery pack**

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Training on hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>City Fire Department</b>
City/Town:	<b>Assen</b>
State/Province:	<b>Drenthe</b>
Country:	<b>The Netherlands</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

## #6

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 17, 2018 11:10:34 AM  
**Last Modified:** Wednesday, January 17, 2018 11:13:44 AM  
**Time Spent:** 00:03:09  
**IP Address:** 66.160.218.201

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

Nothing that I am aware of

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles ,  
Training on hybrid electric/electric vehicles ,  
Resource/funding shortages to training/respond to hybrid electric/electric vehicles ,  
Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type? **Career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**



Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	City of Tyler Fire
City/Town:	Tyler
State/Province:	Texas
Country:	United States
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #7

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 17, 2018 12:12:00 PM  
**Last Modified:** Wednesday, January 17, 2018 12:18:03 PM  
**Time Spent:** 00:06:02  
**IP Address:** 216.110.211.94

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training**  
**Table-top exercises**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

We have had only two incidents involving hybrid vehicles. Neither required extrication other than popping the door with hydraulic spreaders. Therefore, limited exposure.

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles**  
**Training on hybrid electric/electric vehicles**  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Umatilla Rural Fire Protection District</b>
City/Town:	<b>Umatilla</b>
State/Province:	<b>Oregon</b>
Country:	<b>United States</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #8

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 17, 2018 2:23:00 PM  
**Last Modified:** Wednesday, January 17, 2018 2:24:46 PM  
**Time Spent:** 00:01:46  
**IP Address:** 209.60.102.241

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Standard Operating Procedures (SOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**  
**Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

Vehicle Accidents, Heavy Rescues and Fires

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Rincon Fire Department</b>
City/Town:	<b>Valley Center</b>
State/Province:	<b>CA</b>
Country:	<b>USA</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #9

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Thursday, January 18, 2018 12:09:21 PM  
**Last Modified:** Thursday, January 18, 2018 12:15:25 PM  
**Time Spent:** 00:06:04  
**IP Address:** 142.165.199.117

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Standard Operating Procedures (SOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training** ,  
**Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None to date

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**OG602-05VehicleExtrication.pdf (275KB)**

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	
Department/Organization:	<b>Swift Current Fire Department</b>
City/Town:	<b>Swift Current</b>
State/Province:	<b>SASKATCHEWAN</b>
Country:	<b>Canada</b>
Email Address:	
Phone Number:	

# #10

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Thursday, January 18, 2018 12:14:07 PM  
**Last Modified:** Thursday, January 18, 2018 12:18:08 PM  
**Time Spent:** 00:04:01  
**IP Address:** 71.192.159.78

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Written Policy**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**

**Live training,**

**Table-top exercises,**

**Other not listed (please specify):**

**Awareness courses in hybrid and Hydrogen Fuel cell vehicles offered by the State Fire Academy**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

**MVC's including a car into a pond**

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**



Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:

[REDACTED]

Department/Organization:

Templeton Fire-EMS

City/Town:

Templeton

State/Province:

MA

Country:

USA

Email Address:

[REDACTED]

Phone Number:

[REDACTED]

# #11

COMPLETE

**Collector:** Web Link 3 (Web Link)  
**Started:** Thursday, January 18, 2018 12:28:39 PM  
**Last Modified:** Thursday, January 18, 2018 12:29:59 PM  
**Time Spent:** 00:01:19  
**IP Address:** 67.38.220.198

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None to date known

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles , Training on hybrid electric/electric vehicles**

**Q6** What is your department type? **Career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes. **Respondent skipped this question**

# #12

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Thursday, January 18, 2018 1:06:11 PM  
**Last Modified:** Thursday, January 18, 2018 1:09:13 PM  
**Time Spent:** 00:03:01  
**IP Address:** 71.75.65.99

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)  
**Classroom / written training**  
**Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

Our only encounters have been MVCs and no issues have arisen

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Training on hybrid electric/electric vehicles**

**Q6** What is your department type? **Career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Charlotte Fire Department</b>
City/Town:	<b>Charlotte</b>
State/Province:	<b>North Carolina</b>
Country:	<b>USA</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #13

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Friday, January 19, 2018 7:56:54 AM  
**Last Modified:** Friday, January 19, 2018 7:58:57 AM  
**Time Spent:** 00:02:03  
**IP Address:** 173.212.40.27

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training**,  
Other not listed (please specify):  
this question would not let me answer that we do not have training for these incidents

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

none to date; however our town recently installed charging stations

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles**,  
**Training on hybrid electric/electric vehicles**,  
**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type? **Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	
Department/Organization:	<b>Elkin Fire Department</b>
City/Town:	<b>Elkin</b>
State/Province:	<b>NC</b>
Country:	<b>United States</b>
Email Address:	
Phone Number:	

# #14

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Friday, January 19, 2018 3:32:04 PM  
**Last Modified:** Friday, January 19, 2018 3:33:03 PM  
**Time Spent:** 00:00:58  
**IP Address:** 173.14.33.217

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

Extrication on hybrid vehicle and a car fire

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

**Respondent skipped this question**

# #15

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Monday, January 22, 2018 9:59:39 PM  
**Last Modified:** Monday, January 22, 2018 10:01:53 PM  
**Time Spent:** 00:02:13  
**IP Address:** 24.113.170.92

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training**,  
Other not listed (please specify):  
None

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None yet

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles**,  
**Training on hybrid electric/electric vehicles**,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**,  
**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type? **Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**



Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Quilcene Fire Rescue</b>
City/Town:	<b>Quilcene</b>
State/Province:	<b>WA</b>
Country:	<b>USA</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #16

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 23, 2018 3:01:21 PM  
**Last Modified:** Tuesday, January 23, 2018 3:04:14 PM  
**Time Spent:** 00:02:52  
**IP Address:** 192.95.78.162

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **Written Policy**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type? **Combination, mostly career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes. **Respondent skipped this question**

# #17

INCOMPLETE

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 24, 2018 3:59:09 PM  
**Last Modified:** Wednesday, January 24, 2018 4:01:32 PM  
**Time Spent:** 00:02:23  
**IP Address:** 108.160.51.146

Page 1: This is a joint effort from IAFC and NVFC to gather data.

- Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**
- Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**
- Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training ,  
Live training,  
Virtual / Technology-based training**
- Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?  
**None**
- Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles ,  
Training on hybrid electric/electric vehicles ,  
Resource/funding shortages to training/respond to hybrid electric/electric vehicles**
- Q6** What is your department type? **Career**
- Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

**Respondent skipped this question**

# #18

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 24, 2018 3:59:02 PM  
**Last Modified:** Wednesday, January 24, 2018 4:01:48 PM  
**Time Spent:** 00:02:45  
**IP Address:** 68.226.223.136

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Flexible Operating Plans (FOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training** ,  
**Live training** ,  
**Virtual / Technology-based training** ,  
Other not listed (please specify):  
Dealership visits. Very effective.

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Leblanc VFD</b>
City/Town:	<b>Abbeville</b>
State/Province:	<b>Louisiana</b>
Country:	<b>USA</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #19

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 24, 2018 4:07:27 PM  
**Last Modified:** Wednesday, January 24, 2018 4:09:18 PM  
**Time Spent:** 00:01:51  
**IP Address:** 174.218.5.89

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None so far

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles ,  
Training on hybrid electric/electric vehicles**

**Q6** What is your department type? **Combination, mostly career**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
City/Town:	<b>Appling</b>
State/Province:	<b>GA</b>
Country:	<b>United States</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]



# #20

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Wednesday, January 24, 2018 4:10:53 PM  
**Last Modified:** Wednesday, January 24, 2018 4:12:33 PM  
**Time Spent:** 00:01:39  
**IP Address:** 66.31.91.182

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training , Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles , Training on hybrid electric/electric vehicles , Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type? **Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name: [REDACTED]  
Department/Organization: **West Barnstable FD**  
City/Town: **West Barnstable**  
State/Province: **MA**  
Country: **USA**  
Email Address: [REDACTED]  
Phone Number: [REDACTED]

# #21

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Saturday, January 27, 2018 7:48:58 AM  
**Last Modified:** Saturday, January 27, 2018 7:54:29 AM  
**Time Spent:** 00:05:31  
**IP Address:** 96.43.36.115

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has dedicated training specific to these types of incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training** ,  
**Live training,**  
**Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

MVA on 4 lane highways

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles** ,  
**Training on hybrid electric/electric vehicles** ,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles** ,  
**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

Respondent skipped this question

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	Brookland protection District
City/Town:	Brookland
State/Province:	Ar
Country:	Craighead
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

## #22

COMPLETE

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 11:05:12 AM  
**Last Modified:** Tuesday, January 30, 2018 11:07:17 AM  
**Time Spent:** 00:02:04  
**IP Address:** 209.74.236.129

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)  
**Classroom / written training** ,  
**Live training,**  
**Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

none yet

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)  
**Awareness of hybrid electric/electric vehicles** ,  
**Training on hybrid electric/electric vehicles** ,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	Pender
City/Town:	Pender
State/Province:	Ne
Country:	US
Email Address:	[REDACTED]
Phone Number:	[REDACTED]

# #23

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 11:19:40 AM  
**Last Modified:** Tuesday, January 30, 2018 11:26:02 AM  
**Time Spent:** 00:06:21  
**IP Address:** 192.88.142.253

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Standard Operating Procedures (SOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**

**Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type?

**Combination, mostly volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	Village of Boys Town FD
City/Town:	Boys Town
State/Province:	NE
Country:	US
Email Address:	[REDACTED]
Phone Number:	[REDACTED]



# #24

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 11:30:36 AM  
**Last Modified:** Tuesday, January 30, 2018 11:40:31 AM  
**Time Spent:** 00:09:54  
**IP Address:** 207.68.211.169

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Flexible Operating Plans (FOPs)**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**

Other not listed (please specify):

class room, but general safety issues are brought up on hybrids when class is on veh fires, crashes.

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

N/A Haven't had one here

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Training on hybrid electric/electric vehicles**

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

Respondent skipped this question

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	
Department/Organization:	<b>Burwell Vol Fire Department</b>
City/Town:	<b>Burwell</b>
State/Province:	<b>Nebraska</b>
Country:	<b>United States</b>
Email Address:	
Phone Number:	

# #25

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 1:52:31 PM  
**Last Modified:** Tuesday, January 30, 2018 1:54:57 PM  
**Time Spent:** 00:02:26  
**IP Address:** 24.223.104.220

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training** ,  
Other not listed (please specify):  
We have talked through where the batteries are, but have not had a vehicle to practice on.

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

We haven't had any incidents with these vehicles.

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles** ,  
**Training on hybrid electric/electric vehicles** ,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Lexington Volunteer Fire Department</b>
City/Town:	<b>Lexington</b>
State/Province:	<b>NE</b>
Country:	<b>United States</b>
Email Address:	[REDACTED]

# #26

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 2:58:50 PM  
**Last Modified:** Tuesday, January 30, 2018 3:04:29 PM  
**Time Spent:** 00:05:38  
**IP Address:** 204.26.72.172

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Virtual / Technology-based training**

Other not listed (please specify):

Have no training at the present Time however some is scheduled.

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

None so far!

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles**

**Training on hybrid electric/electric vehicles**

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

Respondent skipped this question

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Respondent skipped this question

# #27

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 4:56:44 PM  
**Last Modified:** Tuesday, January 30, 2018 4:59:15 PM  
**Time Spent:** 00:02:31  
**IP Address:** 24.223.104.104

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training**  
**Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

none




**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles**  
**Training on hybrid electric/electric vehicles**  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**  
**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	
Department/Organization:	<b>Cozad Fire and Rescue</b>
City/Town:	<b>Cozad</b>
State/Province:	<b>NE</b>
Country:	<b>USA</b>
Email Address:	
Phone Number:	



## #28

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 4:58:25 PM  
**Last Modified:** Tuesday, January 30, 2018 5:02:00 PM  
**Time Spent:** 00:03:34  
**IP Address:** 173.240.95.85

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training**  
**Table-top exercises**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

have not had to extricate persons from this type yet

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Department/Organization: **NELIGH FIRE**

City/Town: **NELIGH**

State/Province: **NE**

Country: **USA**

# #29

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 5:52:45 PM  
**Last Modified:** Tuesday, January 30, 2018 5:59:29 PM  
**Time Spent:** 00:06:44  
**IP Address:** 75.68.191.59

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)  
**Classroom / written training** ,  
Other not listed (please specify):  
No training has been done

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

We have had limited response to hybrid vehicle incidents

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Training on hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	
Department/Organization:	<b>Bowdoinham Fire Rescue</b>
City/Town:	<b>Bowdoinham</b>
State/Province:	<b>Maine</b>
Country:	<b>United States</b>
Email Address:	
Phone Number:	

# #30

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Tuesday, January 30, 2018 7:50:32 PM  
**Last Modified:** Tuesday, January 30, 2018 7:56:32 PM  
**Time Spent:** 00:06:00  
**IP Address:** 96.31.180.64

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles?

**Best Industry Practice**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles?

**The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training** ,  
**Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

No events, had a look at a car for information, given by a tow operator.

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type?

**Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

**Respondent skipped this question**

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

**Respondent skipped this question**

# #31

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Thursday, February 01, 2018 1:56:16 PM  
**Last Modified:** Thursday, February 01, 2018 1:58:46 PM  
**Time Spent:** 00:02:30  
**IP Address:** 164.119.63.161

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department trains on general tactics that can be applied to hybrid electric/electric vehicles or other similar incidents.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply) **Classroom / written training , Live training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

motor vehicle crashes with hybrids/electric vehicles.

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply) **Awareness of hybrid electric/electric vehicles , Training on hybrid electric/electric vehicles , Resource/funding shortages to training/respond to hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**

**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it. **Respondent skipped this question**

The National Transportation Safety Board (NTSB) has asked the fire service for assistance in trying to establish an assessment of events involving hybrid electric/electric vehicles .

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

**Respondent skipped this question**

# #32

**COMPLETE**

**Collector:** Web Link 3 (Web Link)  
**Started:** Thursday, February 01, 2018 5:05:14 PM  
**Last Modified:** Thursday, February 01, 2018 5:08:05 PM  
**Time Spent:** 00:02:50  
**IP Address:** 108.160.51.146

Page 1: This is a joint effort from IAFC and NVFC to gather data.

**Q1** What are the post-crash/fire protocols currently in place for hybrid electric/electric vehicles? **None**

**Q2** What type of training is currently being administered to your responders for hybrid electric/electric vehicles? **The department has no hybrid electric/electric vehicles incident training.**

**Q3** If you train for hybrid electric/electric vehicles incidents, which tools do you use for training? (Choose all that apply)

**Classroom / written training** ,  
**Live training,**  
**Table-top exercises,**  
**Virtual / Technology-based training**

**Q4** What events has your department already experienced with hybrid electric/electric vehicles, and if so what issues have you found?

Have had some people come and talk about them at Mutual Aid meetings

**Q5** What obstacles does your department face in responding to incidents with hybrid electric/electric vehicles ? (Choose all that apply)

**Awareness of hybrid electric/electric vehicles** ,  
**Training on hybrid electric/electric vehicles** ,  
**Resource/funding shortages to training/respond to hybrid electric/electric vehicles** ,  
**Understanding by tow operators of the known the hazards of hybrid electric/electric vehicles**

**Q6** What is your department type? **Volunteer**



**Q7** Please share your SOPs on hybrid electric/electric vehicles training and response so other fire chiefs can learn from it.

Respondent skipped this question

Page 2

**Q8** Please provide your contact information in case we have follow-up questions. This information will not be shared publicly; it will be used only for administrative purposes.

Name:	[REDACTED]
Department/Organization:	<b>Masiso Fire and Rescue</b>
City/Town:	<b>Madison</b>
State/Province:	<b>Ne</b>
Email Address:	[REDACTED]
Phone Number:	[REDACTED]