

## The FAA M-SCAIT Survey Content

### FAA Aviation Maintenance Safety Survey

You are invited to participate in this survey to assess employee perceptions of safety in your workplace. Please provide your honest feedback, because your responses along with those of your colleagues will provide the information needed to help improve safety and performance in your organization.

The survey takes about 20-30 minutes to complete. Participation in this survey is completely voluntary. You may choose freely to participate or not. Answers to the items are optional, and you may stop and exit the survey at any time without penalty.

Confidentiality: Your survey responses are **confidential**. Your responses will be combined with those of others and summary results will be reported. Essentially, who you are in your organization will not be identifiable, and your individual responses cannot be linked back to you.

On the next page you will be asked to indicate whether you consent to participate in the survey.

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#### Please indicate whether you consent to participate.

- I consent to participate
- I do not consent to participate

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#### [display if "I do not consent to participate" is selected]

You indicated that you do not want to participate in the survey. While getting as many participants as possible is important, the survey is voluntary and your choice to decline must be respected.

**To decline participation, select "Exit Survey". If you would like to participate, select "Return to Informed Consent" and select "I consent to participate".**

- Exit survey
- Return to Informed consent

## Sample Demographics<sup>1</sup>

### Demographics

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- D1** How long have you worked in the aviation industry in years? (required)  
*[dropdown]* Less than 1...More than 50
- D2** How long have you worked for your current organization in years? (required)  
*[dropdown]* Less than 1...More than 50
- D3** What is your current job role? (required)
- Senior management (e.g., Director, V. P.)
  - Mid-level management (e.g., Program Manager, Division or Department Manager)
  - Front-line management (e.g., Project Manager)
  - Non-management Leadership (e.g., Lead, Alt. Lead Technician, Inspector)
  - Non-management/Maintainer (e.g., Technician, Painter, Aircraft Cleaner, etc.)
  - Non-management/Non-maintainer (e.g., Production Control, Tool Room, etc.)
  - Safety or Quality Department
- D4** How long have you worked under your current job role in years? (required)  
*[dropdown]* Less than 1...More than 50
- D5** What size team do you work with? (required)
- I do not work as part of a team
  - 1-5 other technicians/repairmen
  - 6-10 other technicians/repairmen
  - More than 10 other technicians/repairmen
- D6** Which Aviation Maintenance certificate(s) do you currently hold? (required)  
*[mark all that apply]*
- Repairman Certificate
  - Mechanic Certificate with Airframe Privileges
  - Mechanic Certificate with Powerplant Privileges
  - Mechanic Certificate with Airframe and Powerplant Privileges
  - Inspection Authorization Designation
  - I do not currently hold an Aviation Maintenance certificate

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<sup>1</sup> Note, example response options are provided; response options should be tailored to the organization's operational needs.

*Demographics*

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**D7** During the past 3 months on a typical workday, how many hours do you work for your current organization? (required)

- 1 to 4 hours
- 5 to 8 hours
- 9 to 12 hours
- 13 to 16 hours
- 17 to 20 hours
- More than 20 hours

**D8** During the past 3 months in a typical workweek how many hours did you work for your current organization (including ALL assigned work)? (required)

- Fewer than 30 hours
- 30-40 hours
- 41-50 hours
- 51-60 hours
- More than 60 hours

**D9** On average, how often do you work overtime?

- Never
- A few times per year
- 1-2 times per month
- Once a week
- Twice a week
- More than twice a week

**D10** On average, how often do you travel for work?

- Never
- A few times per year
- 1-2 times per month
- Once a week
- Twice a week
- More than twice a week

**D11** What shift do you work? (required)

- 1st Shift
- 2nd Shift
- 3rd Shift
- On-Call

**D12** Are you a Contract or Direct employee of your company? (required)

- Contract employee
- Direct employee

*Demographics*

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**D13 Do you have prior military experience? (required)**

- Yes
- No

**D14 What area of aircraft do you work most of your time?**

- Avionics
- NDT
- Inspection
- Sheet metal
- A&P
- Paint
- Admin or Support
- Management
- Safety or Quality

**Job Resources<sup>2</sup>**

**This section assesses your perceptions of the support you receive in your work environment.**

**Q1.1 Please indicate your level of agreement with each statement.**

*Communication*

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**Q1.1\_1** We are adequately informed about work-related issues.

**Q1.1\_2** Work issues are openly discussed between front-line (floor) employees and management (mid/upper).

**Q1.1\_3** Work issues are openly discussed between front-line (floor) employees and supervisors.

**Q1.1\_4** There is good communication across the different sections/work groups.

**Q1.1\_5** A good communication flow exists up and down the chain of command (or equivalent).

**Q1.1txt** Please share any additional feedback regarding Communication: *[open-text]*

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**Q1.2 Please indicate your level of agreement with each statement.**

*Autonomy*

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**Q1.2\_1** We are encouraged to show initiative.

**Q1.2\_2** We are treated as responsible people.

**Q1.2\_3** We are trusted to do our work.

**Q1.2\_4** We are micromanaged.\*

**Q1.2txt** Please share any additional feedback regarding Autonomy: *[open-text]*

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<sup>2</sup> All 'Agreement' responses are measured on a 6-point Likert anchored at 'Strongly disagree (1)', 'Disagree (2)', 'Slightly disagree (3)', 'Slightly agree (4)', 'Agree (5)', and 'Strongly agree (6)', except open-text items.

**Q1.3 Please indicate your level of agreement with each statement.**

*Training*

- 
- Q1.3\_1 Our training is effective in preparing us for the duties of our jobs.  
Q1.3\_2 Work related training is carried out at appropriate intervals.  
Q1.3\_3 Safety issues are given a high priority in training courses within our organization.  
Q1.3\_4 Safety is consistently emphasized during our training.  
Q1.3\_5 We understand the safety rules and policies.  
Q1.3\_6 We agree with the safety rules and policies.
- 
- Q1.3txt Please share any additional feedback regarding Training: [\[open-text\]](#)

**Q1.4 Please indicate your level of agreement with each statement.**

*Supervision*

- 
- Q1.4\_1 We see our manager/upper manager on the floor often.  
Q1.4\_2 We know who our managers are.  
Q1.4\_3 Supervisors set clear goals and objectives for the team.  
Q1.4\_4 We trust our supervisors.  
Q1.4\_5 We consider our supervisor part of our team.  
Q1.4\_6 Supervisors devote sufficient effort to safety in the workplace.  
Q1.4\_7 Supervisors carefully listen to safety concerns.  
Q1.4\_8 Supervisors appropriately react to safety concerns.  
Q1.4\_9 Management ensures the crew/team is prepared for assigned tasks.
- 
- Q1.4txt Please share any additional feedback regarding Supervision: [\[open-text\]](#)

**Q1.5 Please indicate your level of agreement with each statement.**

*Management Commitment*

- 
- Q1.5\_1 Management values safety.  
Q1.5\_2 We receive managerial support even if following safety rules affects operational activities.  
Q1.5\_3 Supervisor/Front-line management is committed to our safety objectives.  
Q1.5\_4 Middle management is committed to our safety objectives.  
Q1.5\_5 Senior management (Owner/CEO) is committed to our safety objectives.  
Q1.5\_6 Employee input is used to develop and improve safe work procedures.
- 
- Q1.5txt Please share any additional feedback regarding Management Commitment: [\[open-text\]](#)

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**This section assesses your perceptions of how your organization responds to individuals who make an honest mistake.**

**Q2.1 Please indicate your level of agreement with each statement.**

*Just Culture*

- 
- Q2.1\_1 We seek to learn from honest mistakes rather than place blame.

*Just Culture*

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- Q2.1\_2 We can report safety problems without fear of negative consequences.
  - Q2.1\_3 We are confident that when we report our errors we will be treated fairly.
  - Q2.1\_4 Corrective action for unsafe practices is appropriate.
  - Q2.1\_5 Corrective action for unsafe practices is consistent.
  - Q2.1\_6 Corrective action for violations of safety procedures/rules is appropriate.
  - Q2.1\_7 Corrective action for violations of safety procedures/rules is consistent.
  - Q2.1\_8 People will speak up when someone is working unsafely.
- 
- Q2.1txt Please share any additional feedback regarding Just Culture: *[open-text]*

**Q2.2 Please indicate your level of agreement with each statement.**

*Equipment and Tools*

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- Q2.2\_1 Our work facilities are adequate for the safe performance of our duties.
  - Q2.2\_2 There is sufficient personal protective clothing and equipment available for tasks to be carried out safely.
  - Q2.2\_3 Necessary safety equipment is always accessible.
  - Q2.2\_4 Available safety equipment is in good condition.
  - Q2.2\_5 We have the equipment/tools that we need to do our job properly.
  - Q2.2\_6 We have the parts/consumables that we need to do our job properly.
- 
- Q2.2txt Please share any additional feedback regarding Equipment and Tools: *[open-text]*

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**This section assesses your perceptions of job role-specific factors.<sup>3</sup>**

**Q3.1 Please indicate your level of agreement with each statement.**

*Documentation*

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- Q3.1\_1 Technical manuals are easy to use.
- Q3.1\_2 Technical manuals are up-to-date.
- Q3.1\_3 Technical manuals are easy to access.
- Q3.1\_4 Technical manuals are easy to learn.
- Q3.1\_5 Updates to our technical manuals are handled in a timely manner.
- Q3.1\_6 Operating procedures are accurately described in our technical manuals.
- Q3.1\_7 Our electronic manuals have all the functions and capabilities we expect them to have.
- Q3.1\_8 Electronic devices are an effective way to present technical manuals.
- Q3.1\_9 I am committed to following the procedures documented in the technical manual.
- Q3.1\_10 We have enough time to read all the documentation.

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<sup>3</sup> Note, questions were tailored to the organization's operational needs.

*Documentation*

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**Q3.2** Do you know about the standard method of reporting missing or unclear procedures in our technical manuals? *[Yes/No]*

**Q3.3** Please indicate your level of agreement with each statement. *[Agreement scale with N/A option]*

*Documentation*

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**Q3.3\_1** There are too many sources of information that we need to consult in addition to our manuals.\*

**Q3.3\_2** It is easy to get lost in our electronic manuals when following procedures that require access to multiple screens.\*

**Q3.3\_3** I report missing or unclear procedures.<sup>4</sup>

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**Q3txt** Please share any additional feedback regarding Documentation: *[open-text]*

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<sup>4</sup> This item was reclassified into Willingness to Report subscale for the SEM modeling.

**This section assesses your perceptions of your organization's voluntary reporting system. A voluntary reporting system is a formal (non-verbal) way of reporting hazards and safety violations or incidents in your environment.**

*Report System*

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- Q4.1** Our organization has a voluntary reporting system. *[Yes/No]*
- Q4.2** Our organization's voluntary reporting system is electronic. *[Yes/No]*  
*[display if Q4.1 = yes]*
- Q4.3** I know how to use our organization's voluntary reporting system. *[Yes/No]*  
*[display if Q4.1 = yes]*

**Q4.4 Please indicate how well each statement represents your organization's voluntary reporting system. *[display if Q4.1 = yes]***

*Report System*

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- Q4.4\_1** Easy to use.
- Q4.4\_2** Accessible to everyone.
- Q4.4\_3** Confidential.
- Q4.4\_4** Allowed to make reports while on the clock.
- Q4.4\_5** Everyone is included in our safety reporting and resolution system.

*Report System*

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- Q4txt** Please share any additional feedback regarding Report System: *[open-text]*



## Job Demands<sup>5</sup>

This section explores challenges you may encounter at work.

### Q5.1 Please indicate **how often** you encounter each of these challenges.

#### *Workplace Restraints*

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- Q5.1\_1 We are given enough notice of variations to schedules/duty rosters.
- Q5.1\_2 We are concerned about loss of skills because of the lack of opportunity to practice.\*
- Q5.1\_3 We spend more time on paperwork than our real jobs.\*
- Q5.1\_4 Unimportant tasks or activities interfere with our real jobs.\*
- Q5.1\_5 Conflicting job assignments are given (e.g., told to do flight control functional checks while avionics has power off changing boxes).\*
- Q5.1\_6 We are interrupted part-way through tasks to perform other, more urgent tasks.\*
- 
- Q5.1txt Please share any additional feedback regarding Workplace Restraints: [\[open-text\]](#)

### Q5.2 Please indicate **how often** you encounter each of these challenges.

#### *Unit Role Overload*

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- Q5.2\_1 We have trouble keeping up with our workload.\*
- Q5.2\_2 We have to work overtime to get our work done.\*
- Q5.2\_3 We feel pressure because of the critical nature of our work.\*
- Q5.2\_4 Work requirements (e.g., absences or extended hours) put pressure on our personal lives.\*
- Q5.2\_5 We are required to rush tasks to meet job requirements.\*
- Q5.2\_6 We have enough time to carry out our tasks properly.
- Q5.2\_7 We have insufficient staffing to achieve allocated tasks on time.\*
- 
- Q5.2txt Please share any additional feedback regarding Team Role Overload: [\[open-text\]](#)

### Q5.3 Please indicate **how often** you encounter each of these challenges.

#### *Safety Concerns*

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- Q5.3\_1 There is pressure from management to quickly complete assigned tasks at the cost of safety.\*
- Q5.3\_2 We cannot work safely and keep up with our work schedule.\*
- 
- Q5.3txt Please share any additional feedback regarding Safety Concerns: [\[open-text\]](#)

### Q5.4 Please indicate **how often** you encounter each of these challenges.

#### *Personal Role Overload*

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- Q5.4\_1 I am pressured to work long hours.\*
- Q5.4\_2 I have unachievable deadlines.\*
- Q5.4\_3 I have unrealistic time pressures.\*

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<sup>5</sup> All 'Frequency' responses are measured on a 6-point Likert anchored at 'Never (1)', 'Rarely (2)', 'Sometimes (3)', 'Frequently (4)', 'Most of the time (5)', and 'All of the time (6)', except open-text items.

*Personal Role Overload*

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**Q5.4\_4** I have to neglect some tasks because I have too much to do.\*

**Q5.4txt** Please share any additional feedback regarding Personal Role Overload: [\[open-text\]](#)

**Q5.5 Please indicate how often you encounter each of these challenges.**

*Co-worker Concerns*

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**Q5.5\_1** Underperformance is dealt with effectively.

**Q5.5\_2** We have to cover for underperforming colleagues.\*

**Q5.5\_3** Inexperienced staff are promoted/appointed too quickly into supervisory/  
management roles.\*

**Q5.5txt** Please share any additional feedback regarding Co-worker Concerns: [\[open-text\]](#)

## Organizational Outcomes

This section assesses your reporting behavior.

### Q6.1 Please indicate your level of agreement with each statement.

#### *Willingness to Report*<sup>6</sup>

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- Q6.1\_1 I always make the effort to report my own mistakes and incidents.
- Q6.1\_2 I encourage others to report safety hazards, their mistakes, and safety incidents.
- Q6.1\_3 Reporting safety hazards, mistakes, and incidents makes a difference to safety.
- Q6.1\_4 Employees who report safety hazards are given positive recognition by management.
- Q6.1\_5 Management encourages the reporting of safety hazards, mistakes, and safety incidents.
- 
- Q6.1txt Please share any additional feedback regarding Willingness to Report: [\[open-text\]](#)

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This section explores your views on how well you and your team are performing.

### Q7.1 Please indicate your level of agreement with each statement.

#### *Performance*

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- Q7.1\_1 We work efficiently.
- Q7.1\_2 Our work output is high.
- Q7.1\_3 We consistently meet our objectives.
- Q7.1\_4 We review our work processes for opportunities to improve.
- Q7.1\_5 It is acceptable to challenge the way things are done.
- Q7.1\_6 There is a genuine focus on continuous improvement.
- 
- Q7.1txt Please share any additional feedback regarding Performance: [\[open-text\]](#)

### Q7.2 During the past 12 months...

#### *Injury (12 months)*

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- Q7.2\_1 Have you experienced any job-related repetitive strain injuries that required medical attention (e.g., carpal tunnel, tendinitis)? [\[Yes/No\]](#)
- Q7.2\_2 Have you experienced any job-related moderate to serious acute injuries (e.g., fractured/broken bones, head or eye injuries)? [\[Yes/No\]](#)

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<sup>6</sup> Items Q6.1\_3, Q6.1\_4, and Q6.1\_5 were excluded from SEM Model 3.

This section asks you about your work-related mistakes or errors during the past 3 months.

Keep in mind that these items are meant to assess your own, personal experience, not those of your co-workers. Answer these items based on your own, personal experience. Please be honest, and remember that your responses are confidential and cannot be linked back to you.

**Q8. Everyone makes mistakes. Below are some of the common reasons why people make errors on the job.**

*Please answer the following items based on your own, personal experience. Please consider ALL mistakes and errors, big or small.*

**During the past 3 months, how often has each of the following contributed to your work-related mistakes or errors (big or small)? [*Frequency scale with N/A option*]**

*Errors (3 months)*

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Q8.1_1	Stress.
Q8.1_2	Distractions.
Q8.1_3	Tiredness.
Q8.1_4	Time pressure.
Q8.1_5	Apathy.
Q8.1_6	Complacency.
Q8.1_7	Too many things to do.
Q8.1_8	Lack of concentration.
Q8.1_9	Lack of knowledge.
Q8.1_10	Forgetfulness.
Q8.1_11	Poor teamwork.
Q8.1_12	Not having the right <u>equipment/tools</u> .
Q8.1_13	Not having the right <u>parts/consumables</u> .
Q8.1_14	Not having correct/current documentation.
Q8.1_15	Physical work environment (e.g., lighting, temperature, noise).

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Q8.2_1	Failing to detect a fault when completing a visual inspection.
Q8.2_2	Misunderstanding how a particular aircraft system worked.
Q8.2_3	Resuming at the wrong place when returning to a task after an interruption.
Q8.2_4	Missing a step(s) in a maintenance task.
Q8.2_5	Installing a part the wrong way.
Q8.2_6	Fitting/applying an incorrect part or component into an aircraft.
Q8.2_7	Refitting an aircraft panel incorrectly after a task.

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Q8.3_1	Forgetting to check that all steps in a procedure were completed.
Q8.3_2	Leaving a tool or some other items in the aircraft/system.
Q8.3_3	Finding a part left over after a job was completed.
Q8.3_4	Forgetting to sign off a task.
Q8.3_5	Signing off a task without completely/ thoroughly checking.

*Errors (3 months)*

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Q8.3_6	Incorrectly entering the details of a component into the documentation.
Q8.3_7	Variance in model of aircraft we work on.
Q8.3_8	Changes in the assignment of aircraft that we work on.
Q8txt	Please share any additional feedback regarding <u>Errors</u> : <a href="#">[open-text]</a>

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**Q9.1 Please indicate your level of agreement with each statement.**

*Compliance*

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Q9.1_1	I have taken risks, beyond those inherent in my job, in order to get a task done.*
Q9.1_2	I am prepared to overlook some rules in order to get the job done more quickly.*
Q9.1_3	Supervisors sometimes 'turn a blind eye' when rules are bent.*
Q9.1_4	People use undocumented and/or unauthorized workarounds to get the job done.*
Q9.1_5	People have intentionally not complied with an approved procedure or process to get the job done.*
Q9.1_6	Written procedures often do not reflect how the job is done.*
Q9.1_7	My workgroup uses locally developed processes to perform work tasks.*
Q9txt	Please share any additional feedback regarding <u>Compliance</u> : <a href="#">[open-text]</a>

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## Employee Outcomes

This section explores satisfaction and morale at work.

**Q10.1 Please indicate your level of agreement with each statement.**

### *Job Satisfaction and Morale*

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- Q10.1\_1 I am satisfied with my current job.
- Q10.1\_2 I like the type of work I do.
- Q10.1\_3 I find my job rewarding.
- Q10.1\_4 The morale in my unit/workplace is high.
- Q10.1\_5 I like my co-workers.

**Q10.2 Please indicate your level of agreement with each statement.**

### *Turnover Intentions*

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- Q10.2\_1 I often think about quitting this organization.\*
- Q10.2\_2 I intend to search for a position with another employer in the next year.\*
- Q10txt Please share any additional feedback regarding Job Satisfaction and Morale: *[open-text]*

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**This section assesses your general health.**

**Q11 Please indicate how often you encounter each of these challenges.**

**Recently, how often have you...**

### *General Health Questionnaire*

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- Q11.1\_1 Been able to concentrate on what you are doing.
- Q11.1\_2 Lost sleep over worry.\*
- Q11.1\_3 Felt that you are playing a useful part in things.
- Q11.1\_4 Felt capable of making decisions about things.
- Q11.1\_5 Felt continually under strain.\*
- Q11.1\_6 Felt you could not overcome your difficulties.\*
- Q11.2\_1 Been able to enjoy your normal day-to-day activities.
- Q11.2\_2 Been able to face up to your problems.
- Q11.2\_3 Felt unhappy and/or depressed.\*
- Q11.2\_4 Experienced a lack of confidence in yourself.\*
- Q11.2\_5 Thought of yourself as worthless.\*
- Q11.2\_6 Felt happy.
- Q11txt Please share any additional feedback regarding General Health: *[open-text]*

## Fatigue

This section assesses your fatigue.

### *Fatigue Risk Management*

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**Q12.1** Our organization has a formal Fatigue Risk Management System. [*Yes/No/Don't Know*]

**Q12.2** Please indicate your level of agreement with each statement.

### *Fatigue Risk Management*

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**Q12.2\_1** Fatigue represents a significant risk in our organization.<sup>7</sup>

**Q12.2\_2** Our organization is aware of impact of fatigue on employee's performance.

**Q12.2\_3** Our organization attempts to mitigate employee's fatigue.

**Q12.2\_4** All maintenance employees have received fatigue awareness training provided by the organization.

**Q12.3** Please indicate your level of agreement with each statement.

### *Fatigue Risk Management*

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**Q12.3\_1** Our organization assesses for extended duty shifts (+12 hours).

**Q12.3\_2** Our organization assesses for excessive consecutive days on duty (+7 days).

**Q12.3\_3** Extended duty shifts (+12 hours) are common practice for our organization.\*

**Q12.3\_4** Excessive consecutive days on duty (+7 days) are common practice for our organization.\*

**Q12.3\_5** There are special considerations to address fatigue risk on the graveyard shift (early morning or night shift).

**Q12.3\_6** Workers can use sick leave to call in fatigued.

**Q12.3\_7** Management/Supervisors schedule to minimize fatigue.

**Q12.4** Please indicate how often you have experienced each of the following:

### *Strain and Fatigue*

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**Q12.4\_1** I work seven (7) consecutive duty days without 24 hours of rest.\*

**Q12.4\_2** I feel stressed at work.\*

**Q12.4\_3** I experience fatigue while on duty.\*

**Q12.4\_4** Fatigue has affected my ability to perform the job effectively.\*

**Q12.4\_5** I commit errors while on duty because of fatigue.\*

**Q12.4\_6** Others in your work group exhibit fatigue while on duty.\*

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<sup>7</sup> Note that this item can be interpreted either 1) positively - Our organization considers fatigue as a key risk factor (to be controlled), or 2) negatively - Our organization currently has a fatigue risk. The researchers categorized it positively, but additional caution is needed when interpreting this result.

## Strain and Fatigue

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**Q12.5** Which of the following factors contributed to your fatigue while on duty? *[mark all that apply]*

- Workload
- Work pace
- Rotating work schedule
- Work shift (i.e., early morning, night shift)
- Work environment (i.e. noise, temperature, air quality, lighting, etc.)
- Family demands
- Physical health
- Travel for work (distance and duration)
- On-call operations
- Other (please specify)

**Q12.5txt** Other factors that contributed to your fatigue while on duty: *[open-text]* *[display if Q12.6 = Other (please specify)]*

**Q12.6** Are there any operational changes that you would recommend to reduce your risk of fatigue? *[Yes/No]*

**Q12.6txt** Operational changes you recommend to reduce risk of fatigue: *[open-text]*  
*[display if Q12.7 = yes]*

**Q12txt** Please share any additional feedback regarding Strain and Fatigue: *[open-text]*



## Bullying<sup>8</sup>

This section assesses your work environment.

**"Workplace bullying" is a persistent, unreasonable form of harassment. It can be defined as unwanted or unwelcome behavior that a reasonable person, having regard to all the circumstances, would consider offensive, insulting, humiliating, or intimidating. Workplace bullying does not include reasonable management action taken in a reasonable way.**

Please indicate **how often** you encounter each of these challenges.

*Bullying (3 months)*

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**Q13.1** In the past three months, how often have you been subjected to workplace bullying?

### Bullying (conditional questions)

[display if 13.1 = sometimes, frequently, most of the time, or all of the time]

**Q13.2** The following behaviors are often seen as examples of negative behavior in the workplace. Please indicate **how often** you've encountered these negative acts in the **last 3 months**.

Over the **last 3 months** how often have you been subjected to the following...

*Note: The response scale has changed. Please read carefully.*

*Bullying (3 months)*

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**Q13.2\_1** Someone withholding information which affects your performance.\*

**Q13.2\_2** Being humiliated or ridiculed in connection with your work.\*

**Q13.2\_3** Being ordered to do work below your level of competence.\*

**Q13.2\_4** Having key areas of responsibility removed or replaced with more trivial or unpleasant tasks.\*

**Q13.2\_5** Spreading of gossip and rumors about you.\*

**Q13.2\_6** Being ignored, excluded or getting 'the cold shoulder'.\*

**Q13.2\_7** Having insulting or offensive remarks made about your person (i.e., habits and background), your attitudes, or your private life.\*

**Q13.2\_8** Being shouted at or being the target of spontaneous anger (or rage).\*

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**Q13.3\_1** Intimidating behavior, such as finger-pointing, invasion of personal space, shoving, blocking/barring the way.\*

**Q13.3\_2** Hints or signals from others that you should quit your job.\*

**Q13.3\_3** Repeated reminders of your error or mistakes.\*

**Q13.3\_4** Being ignored or facing a hostile reaction when you approach others.\*

**Q13.3\_5** Persistent criticism of your work and effort.\*

**Q13.3\_6** Having your opinions and views ignored.\*

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<sup>8</sup> All 'Frequency' responses are measured on a 5-point Likert anchored at 'Never (1)', 'Now and then (2)', 'Monthly (3)', 'Weekly (4)', and 'Daily (5)', except for item 13.1 and open-text items.

### *Bullying (3 months)*

- 
- Q13.3\_7 Practical jokes carried out by people you don't get along with.\*
- Q13.3\_8 Being given tasks with unreasonable or impossible targets or deadlines.\*
- 
- Q13.4\_1 Having unsubstantiated allegations made against you.\*
- Q13.4\_2 Excessive monitoring of your work.\*
- Q13.4\_3 Pressure not to claim something which by right you are entitled to (e.g., sick leave, holiday entitlement, travel expenses).\*
- Q13.4\_4 Being the subject of excessive teasing and sarcasm.\*
- Q13.4\_5 Being exposed to an unmanageable workload.\*
- Q13.4\_6 Threats of violence or physical abuse or actual abuse.\*
- 
- Q13txt Please share any additional feedback regarding Bullying: [\[open-text\]](#)

### **System Usability and Workload**

**This section assesses the usability and workload that you experienced while completing the survey. Please be honest, as your responses will be used to improve the survey for future respondents.**

#### **Q14.1 Please indicate your level of agreement with each statement.**

##### *Usability*

- 
- Q14.1\_1 The time required to complete this survey is appropriate for the value of the data collected.
- Q14.1\_2 The survey contains important items to assess an organization's safety culture.
- Q14.1\_3 The survey is user-friendly.
- Q14.1\_4 I would recommend this survey for industry use.
- Q14.1\_5 The survey results will be used by management to identify areas in need of improvement.
- Q14.1\_6 Managers will make meaningful improvements based on the survey results.
- Q14.1\_7 I thought there was too much inconsistency in the survey.\*
- Q14.1\_8 I found the survey unnecessarily complex.\*
- 
- Q14txt Please share any additional feedback regarding Usability: [\[open-text\]](#)
- Q15txt **If you have feedback about how to improve the survey content, please provide it in the text box below.** [\[open-text\]](#)

## Data Scoring and Analysis

- To protect confidentiality of the participants, only analyses and reports of aggregated data (i.e., where  $n \geq 8$ ) should be produced and reported.
- The survey items and response options can be standardized for analysis. This allows easier interpretation of the results, where higher values always reflect more positive perceptions of the safety culture regardless of meaning of all subscales. To calculate a simple average within each subscale, all average scores can be mathematically standardized from a 6-point Likert scale to a 10-point score for ease of interpretation (see *Equation 1*). When standardizing, keep in mind:
  - Items marked by an asterisk (\*) are reversely worded; therefore, the scores should be reversed before standardizing and analyzing the data.
  - The ‘Not Applicable’ (N/A) responses can be excluded for score averaging.
- Standardizing scores may not be appropriate for some data types, such as yes-no response options and comment responses. Instead, consider:
  - Calculating percentage of yes responses.
  - Identifying themes in comment responses, such as: strengths, opportunities, recommendations for improvement.

### Equation 1

*Rescaling Likert Scales for Standardized Scores*

$$\text{Standardized score} = \frac{\text{Average score} - 1}{\text{Maximum scale score} - 1} * 10$$