

## Fire Interest Rating Scale<sup>1</sup>

Please rate each situation. Make sure that he/she understands the situation described and expand if necessary.

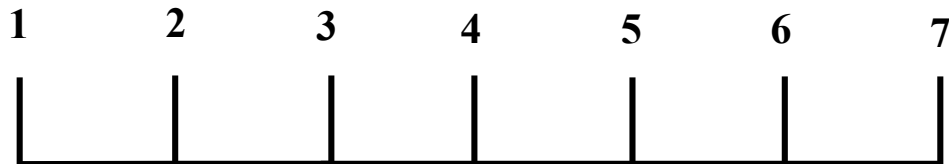
| 1                                   | 2                  | 3                  | 4                     | 5                        | 6                        | 7                         |
|-------------------------------------|--------------------|--------------------|-----------------------|--------------------------|--------------------------|---------------------------|
| Very upsetting, absolutely horrible | Somewhat upsetting | A little upsetting | OK, doesn't bother me | A little exciting or fun | Somewhat exciting or fun | Very exciting, really fun |

### How would you feel:

|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| 1. Having matches or lighter in your pocket?                               | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 2. Watching an ordinary wood stove or fireplace fire in an ordinary house? | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 3. Watching a bonfire outdoors, like on campfire night?                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 4. Seeing the firefighter get their equipment ready?                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 5. Watching a fire engine come down the road?                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 6. Striking a match to light a cigarette?                                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 7. Watching a house burn down?   | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 8. Going to a police station to be questioned about a fire?                | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 9. Watching people run from a fire?  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 10. Watching a person with his clothes on fire?                            | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 11. Striking a match to set fire to a building?                            | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 12. Seeing a hotel on fire on the TV news?                                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 13. Seeing the firefighter fighting the fire?                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| <hr/>  |   |   |   |   |   |   |   |
| 14. Giving a lighter or matches back to somebody else?                     | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

<sup>1</sup> Adapted from: Murphy, G.H. & Clare, I.C.H. (1996). Analysis of motivation in people with mild learning disabilities (mental handicap) who set fires. *Psychology, Crime & Law* (2), 153-164.

### FIRS Rating Scale



Very upsetting,  
absolutely horrible

OK, doesn't  
bother me

Very exciting,  
really fun

### IFQ and FAS Rating Scale

| 1                    | 2        | 3         | 4     | 5                 |
|----------------------|----------|-----------|-------|-------------------|
| Strongly<br>Disagree | Disagree | Undecided | Agree | Strongly<br>Agree |

## Identification with Fire Questionnaire<sup>2</sup>

Please read each statement below and circle the number that best corresponds to how much you agree with each of the following statements based on the following scale from “Strongly disagree” to “Strongly agree”

| <b>1</b>          | <b>2</b> | <b>3</b>  | <b>4</b> | <b>5</b>       |
|-------------------|----------|-----------|----------|----------------|
| Strongly Disagree | Disagree | Undecided | Agree    | Strongly Agree |

- |  |   |   |   |   |   |
|--|---|---|---|---|---|
| 1. Fire is an important part of my identity                | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 2. I don't need fire                                       | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 3. Fire is almost part of my personality                   | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 4. If I never saw another fire again it wouldn't bother me | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 5. Fire is an important part of my life                    | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 6. I don't know who I am without fire                      | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 7. I need fire in my life                                  | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 8. Without fire, I am nobody                               | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 9. Fire is a part of me                                    | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 10. I have to have fire in my life                         | 1 | 2 | 3 | 4 | 5 |

<sup>2</sup> Adapted from: Gannon, T.A., Ó Ciardha, & Barnoux, M.F.L. (2011). *The identification with fire questionnaire*. Unpublished manuscript, CORE-FP, School of Psychology, University of Kent, UK

### Fire Attitude Scale<sup>3</sup>

Please read each statement below and circle the number that best corresponds to how much you agree with each of the following statements based on the following scale from “Strongly disagree” to “Strongly agree”

| 1                 | 2        | 3         | 4     | 5              |
|-------------------|----------|-----------|-------|----------------|
| Strongly Disagree | Disagree | Undecided | Agree | Strongly Agree |

- |  |   |   |   |   |   |
|--|---|---|---|---|---|
| 1. Most people carry a box of matches or a lighter around              | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 2. People often set fires when they are angry                          | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 3. I would like to work as a fireman                                   | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 4. The best thing about fire is watching it spread                     | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 5. I have never put a fire out   | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 6. I know a lot about how to prevent fires                             | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 7. Setting just a small fire can make you feel a lot better            | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 8. Fires can easily get out of control                                 | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 9. I get bored very easily in my spare time                            | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 10. People who set fires should be locked up                           | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 11. When you're with your friends, you act now and think<br>later      | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 12. If you've got problems, a small fire can help you sort<br>them out | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 13. Most families have had a fire accident at home                     | 1 | 2 | 3 | 4 | 5 |
| <hr/>  |   |   |   |   |   |
| 14. Parents should spend money on buying a fire                        | 1 | 2 | 3 | 4 | 5 |

<sup>3</sup> Adapted from: Muckley, A. (1997). *Firesetting: Addressing offending behaviour: A resource and training manual*: Redcare and Cleveland Psychological Service.

extinguisher

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 15. Most people have set a few small fires just for fun | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|

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|  |   |   |   |   |   |
|--|---|---|---|---|---|
| 16. I usually go along with what my friends decide | 1 | 2 | 3 | 4 | 5 |
|--|---|---|---|---|---|

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|  |   |   |   |   |   |
|--|---|---|---|---|---|
| 17. Playing with matches can be very dangerous | 1 | 2 | 3 | 4 | 5 |
|--|---|---|---|---|---|

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 18. Most people have been questioned about fires by the | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|

police

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 19. They should teach you about fire prevention at school | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|

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|  |   |   |   |   |   |
|--|---|---|---|---|---|
| 20. Most people's friends have lit a fire or two | 1 | 2 | 3 | 4 | 5 |
|--|---|---|---|---|---|

## Fire Related Scales Scoring Information

Applies to:

Identification with Fire Questionnaire (IFQ)  
Fire Attitude Scale (FAS)  
Fire Interest Rating Scale (FIRS)

Sum all scores: Higher score indicates increased level of fire interest

### Four Factor Fire Scale Scoring Guidelines

The Four Factor Fire Scale is comprised of 30 items from the:

Identification with Fire Questionnaire (IFQ)  
Fire Attitude Scale (FAS)<sup>4</sup>  
Fire Interest Rating Scale (FIRS)

The four factors are identified as: Identification with fire, serious fire interest, poor fire safety, and firesetting as normal

Administration: Either administer the IFQ, FAS, and FIRS independently and transfer scores to the scoring template.

Scoring: Using the Scoring Template, transfer all scores as indicated. Bolded lines represent the *only* items from the IFQ, FAS, and FIRS required for scoring the Four Factor Fire Scale. Non-bolded items do not load onto the Four Factor model.

\*\*\* items *must* be reverse scored as follows:

|                 |   |   |   |   |   |
|-----------------|---|---|---|---|---|
| Original value: | 1 | 2 | 3 | 4 | 5 |
| New value:      | 5 | 4 | 3 | 2 | 1 |

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<sup>4</sup> The FAS (Muckley, 1997) remains unpublished. The FIRS and FAS do not yet received independent thorough psychometric examination or validation.

### Four Factor Fire Scale Scoring Template

| Scale       | Item#     | Questions  | Identification with Fire | Serious Fire Interest | Poor Fire Safety | Firesetting as Normal |
|-------------|-----------|--|--------------------------|-----------------------|------------------|-----------------------|
| FIRS        | 1         | Having a box of matches in your pocket                                 |                          |                       |                  |                       |
| FIRS        | 2         | Watching an ordinary wood stove or fireplace fire in an ordinary house |                          |                       |                  |                       |
| FIRS        | 3         | Watching a bonfire outdoors, like on campfire night                    |                          |                       |                  |                       |
| FIRS        | 4         | Seeing the firefighter get their equipment ready                       |                          |                       |                  |                       |
| FIRS        | 5         | Watching a fire engine come down the road                              |                          |                       |                  |                       |
| FIRS        | 6         | Striking a match to light a cigarette                                  |                          |                       |                  |                       |
| <b>FIRS</b> | <b>7</b>  | <b>Watching a house burn down</b>                                      |                          |                       |                  |                       |
| <b>FIRS</b> | <b>8</b>  | <b>Going to a police station to be questioned about a fire</b>         |                          |                       |                  |                       |
| <b>FIRS</b> | <b>9</b>  | <b>Watching people run from a fire</b>                                 |                          |                       |                  |                       |
| <b>FIRS</b> | <b>10</b> | <b>Watching a person with his clothes on fire</b>                      |                          |                       |                  |                       |
| <b>FIRS</b> | <b>11</b> | <b>Striking a match to set fire to a building</b>                      |                          |                       |                  |                       |
| <b>FIRS</b> | <b>12</b> | <b>Seeing a hotel on fire on the TV news</b>                           |                          |                       |                  |                       |
| <b>FIRS</b> | <b>13</b> | <b>Seeing the firefighter fighting the fire</b>                        |                          |                       |                  |                       |
| FIRS        | 14        | Giving matches back to someone   |                          |                       |                  |                       |
| <b>IFQ</b>  | <b>1</b>  | <b>Fire is an important part of my identity</b>                        |                          |                       |                  |                       |
| IFQ         | 2         | I don't need fire  |                          |                       |                  |                       |
| <b>IFQ</b>  | <b>3</b>  | <b>Fire is almost part of my personality</b>                           |                          |                       |                  |                       |
| IFQ         | 4         | If I never saw another fire again it wouldn't bother me                |                          |                       |                  |                       |
| <b>IFQ</b>  | <b>5</b>  | <b>Fire is an important part of my life</b>                            |                          |                       |                  |                       |
| <b>IFQ</b>  | <b>6</b>  | <b>I don't know who I am without fire</b>                              |                          |                       |                  |                       |
| <b>IFQ</b>  | <b>7</b>  | <b>I need fire in my life</b>  |                          |                       |                  |                       |

|                           |           |  |  |  |               |  |
|---------------------------|-----------|--|--|--|---------------|--|
| <b>IFQ</b>                | <b>8</b>  | <b>Without fire, I am nobody</b>                                       |  |  |               |  |
| <b>IFQ</b>                | <b>9</b>  | <b>Fire is a part of me</b>  |  |  |               |  |
| <b>IFQ</b>                | <b>10</b> | <b>I have to have fire in my life</b>                                  |  |  |               |  |
| FAS                       | 1         | Most people carry a box of matches or a lighter around                 |  |  |               |  |
| FAS                       | 2         | People often set fires when they are angry                             |  |  |               |  |
| FAS                       | 3         | I would like to work as a fireman                                      |  |  |               |  |
| <b>FAS</b>                | <b>4</b>  | <b>The best thing about fire is watching it spread</b>                 |  |  |               |  |
| FAS                       | 5         | I have never put a fire out  |  |  |               |  |
| <b>FAS</b>                | <b>6</b>  | <b>I know a lot about how to prevent fires***</b>                      |  |  | reverse score |  |
| <b>FAS</b>                | <b>7</b>  | <b>Setting just a small fire can make you feel a lot better</b>        |  |  |               |  |
| <b>FAS</b>                | <b>8</b>  | <b>Fires can easily get out of control***</b>                          |  |  | reverse score |  |
| <b>FAS</b>                | <b>9</b>  | <b>I get bored very easily in my spare time</b>                        |  |  |               |  |
| FAS                       | 10        | People who set fires should be locked up                               |  |  |               |  |
| <b>FAS</b>                | <b>11</b> | <b>When you're with your friends, you act now and think later</b>      |  |  |               |  |
| <b>FAS</b>                | <b>12</b> | <b>If you've got problems, a small fire can help you sort them out</b> |  |  |               |  |
| <b>FAS</b>                | <b>13</b> | <b>Most families have had a fire accident at home</b>                  |  |  |               |  |
| <b>FAS</b>                | <b>14</b> | <b>Parents should spend money on buying a fire extinguisher</b>        |  |  | reverse score |  |
| <b>FAS</b>                | <b>15</b> | <b>Most people have set a few small fires just for fun</b>             |  |  |               |  |
| <b>FAS</b>                | <b>16</b> | <b>I usually go along with what my friends decide</b>                  |  |  |               |  |
| <b>FAS</b>                | <b>17</b> | <b>Playing with matches can be very dangerous</b>                      |  |  | reverse score |  |
| <b>FAS</b>                | <b>18</b> | <b>Most people have been questioned about fires by the police</b>      |  |  |               |  |
| <b>FAS</b>                | <b>19</b> | <b>They should teach you about fire prevention at school</b>           |  |  | reverse score |  |
| <b>FAS</b>                | <b>20</b> | <b>Most people's friends have lit a fire or two</b>                    |  |  |               |  |
| A: Total for each column: |           |  |  |  |               |  |



|   |    |   |   |   |
|---|----|---|---|---|
| B: Number of responses in each column:  |    |   |   |   |
| C: Number of items in each column:  | 11 | 7 | 6 | 7 |
|   |    |   |   |   |
| <b>Calculate for all factors: (A÷B) x C</b>                                     |    |   |   |   |
| <b>Calculate for 2<sup>nd</sup> factor: (D÷7) x 5</b>                           |    |   |   |   |
|   |    |   |   |   |
| <b>Subscale Scores:</b><br>Round values for all factors to nearest whole number |    |   |   |   |

Calculating Total Score:

|                          |   |                       |   |                  |   |                       |   |                         |  |
|--------------------------|---|-----------------------|---|------------------|---|-----------------------|---|-------------------------|--|
| Identification with Fire |   | Serious Fire Interest |   | Poor Fire Safety |   | Firesetting as Normal |   | Sum of Subscale Scores: |  |
|                          | + |                       | + |                  | + |                       | = |                         |  |
|                          |   |                       |   |                  |   |                       |   | FAS12 value:            |  |
| (subtract FAS12 value)   |   |                       |   |                  |   |                       |   | -                       |  |
| Total Score              |   |                       |   |                  |   |                       |   | =                       |  |

Summary of Results:

|                          | Scores | Minimum | Maximum |
|--------------------------|--------|---------|---------|
| Identification with Fire |        | 11      | 55      |
| Serious Fire Interest    |        | 5       | 35      |
| Poor Fire Safety         |        | 6       | 30      |
| Firesetting as Normal    |        | 7       | 35      |
| <b>Total Score:</b>      |        | 28      | 150     |

Interpretation:

Identify non-problematic scores, potentially problematic scores, problematic scores using tables below.

Elevated scores on any of the four subscales may represent areas of treatment need. However, considering individual answers and contextual factors may aid case formulation.

If an individual has more than one missing value on a subscale, clinicians should exercise caution when interpreting that subscale.

Table 3

*Interpretation of Clinical Scores using Cutoff Scores for the Four Fire Factors and Associated Total Score*

|                          | Interpretation          | Prison |        | Mental Health |        | Male Young Offenders |
|--------------------------|-------------------------|--------|--------|---------------|--------|----------------------|
|                          |                         | Male   | Female | Male          | Female |                      |
| Identification with Fire | Non-Problematic         | 11-16  | 11-15  | 11-17         | 11-16  | 11-17                |
|                          | Potentially Problematic | 16-32  | 15-30  | 17-33         | 16-31  | 17-32                |
|                          | Problematic             | 32-55  | 30-55  | 33-55         | 31-55  | 32-55                |
| Serious Fire Interest    | Non-Problematic         | 5-11   | 5-8    | 5-11          | 5-8    | 5-13                 |
|                          | Potentially Problematic | 11-19  | 8-17   | 11-19         | 8-17   | 13-21                |
|                          | Problematic             | 19-35  | 17-35  | 19-35         | 17-35  | 21-35                |
| Poor Fire Safety         | Non-Problematic         | 6-10   | 6-10   | 6-11          | 6-10   | 6-11                 |
|                          | Potentially Problematic | 10-16  | 10-16  | 11-17         | 10-16  | 11-17                |
|                          | Problematic             | 16-30  | 16-30  | 17-30         | 16-30  | 17-30                |
| Firesetting as Normal    | Non-Problematic         | 7-20   | 7-19   | 7-20          | 7-20   | 7-23                 |
|                          | Potentially Problematic | 20-28  | 19-27  | 20-27         | 20-28  | 23-31                |
|                          | Problematic             | 28-35  | 27-35  | 27-35         | 28-35  | 31-35                |
| Four Factor Total        | Non-Problematic         | 28-56  | 28-50  | 28-57         | 28-53  | 28-63                |
|                          | Potentially Problematic | 56-76  | 50-71  | 57-78         | 53-74  | 63-83                |
|                          | Problematic             | 76-150 | 71-150 | 78-150        | 74-150 | 83-150               |

*Note.* Male Young Offenders represent prisoners incarcerated in a YOI or aged 21 or younger. These individuals are included in the male prison sample. *Non-problematic* indicates a score similar to non-firesetter prisoners. *Potentially problematic or problematic* indicates a score similar to firesetter prisoners. Readers should note that bins 'overlap' (e.g., a male prisoner's Poor Fire Safety Score of 10 borders between Non-Problematic and Potentially Problematic scoring). Clinicians should highlight this.

For repeat assessment: Refer to Table 4 to identify minimum reduction in score required to indicate client has made reliable change:

Table 4

*Minimum Pre-Post Treatment Change Required to be Considered Reliable (and Variables in the Equation)*

|                          | Standard Deviation<br>( $s_x$ ) | Test-Retest Correlation<br>( $r_x$ ) | Minimum Reliable Change<br>( $y$ ) |
|--------------------------|---------------------------------|--------------------------------------|------------------------------------|
| Identification with Fire | 7.56                            | .47                                  | 15                                 |
| Serious Fire Interest    | 5.39                            | .67                                  | 9                                  |
| Fire Safety              | 3.17                            | .54                                  | 6                                  |
| Firesetting as Normal    | 5.51                            | .73                                  | 8                                  |
| Four Factor Total        | 15.07                           | .75                                  | 21                                 |

*Note.* Test-retest was determined by the correlation between responses at separate times in a subset of the participants ( $n=45$ ), all of whom were prison-based firesetters and completed the follow up after approximately 6 months, and who received no tailored firesetting treatment in that period.