

# TOP 25 JUDGE QUESTIONS

## Fire Resilient Future practice questionnaire

**HOW TO PRACTICE** Answer aloud in 30-60 seconds. State the answer, explain why, give evidence, and point to the model when useful.

| #  | Category     | Question                                                                                | Ready?                                                            |
|----|--------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1  | Theme & Risk | What is the biggest urban wildfire or WUI risk facing your city?                        | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 2  | Theme & Risk | Why did your team choose this location, and how does the location affect wildfire risk? | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 3  | Prevention   | How does your city prevent fires from starting?                                         | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 4  | Prevention   | How does your city detect and respond to fires early?                                   | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 5  | Prevention   | How do zoning, vegetation management, or land-use decisions reduce risk?                | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 6  | Prevention   | How does data, modeling, or artificial intelligence improve prevention?                 | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 7  | Protection   | How do buildings and neighborhoods resist flames, heat, and embers?                     | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 8  | Protection   | How does your city protect hospitals, schools, utilities, and emergency services?       | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 9  | Protection   | How do residents evacuate and how do first responders enter safely?                     | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 10 | Protection   | What happens if one of your protection systems fails?                                   | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 11 | Recovery     | What happens during the first 24 hours after a wildfire?                                | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 12 | Recovery     | How are displaced or vulnerable residents supported?                                    | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 13 | Recovery     | How are power, water, transportation, and communications restored?                      | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 14 | Recovery     | How are air, water, soil, and ecosystems repaired?                                      | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 15 | Recovery     | How does your city rebuild faster, safer, and more equitably?                           | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 16 | Engineering  | What engineering disciplines were involved and what roles did they play?                | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |

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|    |                    |                                                                                         |                                                                   |
|----|--------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 17 | Engineering        | Which technology is most innovative, and why is it scientifically possible?             | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 18 | Engineering        | How did the engineering design process change or improve your solution?                 | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 19 | Model              | How did you design and build the moving part, and what city function does it represent? | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 20 | Project Management | How did project management help the team meet goals and deadlines?                      | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 21 | Trade-Offs         | What was the hardest trade-off or compromise your team made?                            | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 22 | Trade-Offs         | What are the costs, risks, and environmental impacts of your solutions?                 | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 23 | City Systems       | How do your wildfire solutions affect housing, jobs, transportation, and daily life?    | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 24 | Teamwork           | What challenge or disagreement did your team face, and how was it resolved?             | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |
| 25 | Reflection         | If your team could improve one part of the city, what would it be and why?              | <input type="checkbox"/> Yes<br><input type="checkbox"/> Practice |

## Answer Quality Check

- ☐ Answer is direct and does not wander.
- ☐ Explanation uses research, engineering, or city-system reasoning.
- ☐ A benefit and a limitation or trade-off can be discussed.
- ☐ Presenter can locate supporting evidence on the model.
- ☐ Any presenter can add detail without contradicting teammates.