

Eco-Driving Behavior Questionnaire

"Questionnaire Number:"

Dear Driver,

This questionnaire has been prepared for a research project entitled *"The Impact of an Educational Intervention Based on the Health Belief Model on Air Pollution-Reducing Behaviors among Taxi Drivers in Tehran."* We kindly ask you to carefully read each question and mark your answers accordingly. Please be assured that all collected information will remain confidential and will only be used for research purposes. There is no need to write your name or surname. We sincerely appreciate your cooperation.

- *The estimated time to complete this questionnaire is approximately 10 minutes.*

Section 1: Demographic Information

- 1) Age: years
- 2) Education Level:
 - 1) Illiterate 2) Below High School 3) High School Diploma 4) Associate Degree
 - 5) Bachelor's Degree 6) Master's Degree 7) Doctorate or Higher
- 3) How long have you lived in Tehran? years
- 4) How many years have you held a driver's license? years

Section 2: Knowledge

- 1) Which of the following fuels creates the least air pollution?
 - 1) Regular gasoline 2) Premium gasoline 3) Diesel 4) CNG 5) I don't know
- 2) Which type of engines cause more environmental pollution?
 - 1) Fuel-injection engines 2) Carburetor engines 3) I don't know
- 3) Can not performing regular technical inspections and engine tuning increase air pollution?
 - 1) Yes 2) No 3) I don't know
- 4) How often should engine oil be changed?
 - 1) When the oil turns black 2) When the oil filter is changed
 - 3) Based on manufacturer recommendations and mileage 4) I don't know
- 5) How often should the oil filter be changed?
 - 1) Every six months 2) With every oil change
 - 3) With every two oil changes 4) I don't know
- 6) How often should the air filter be changed?
 - 1) With every oil change 2) With every two oil changes
 - 3) Every six months 4) I don't know

7) How often should tire pressure be checked?

1) Every two weeks 2) Every month 3) Every six months 4) I don't know

8) What does black exhaust smoke indicate?

1) Burning oil 2) Incomplete fuel combustion 3) Burning coolant 4) I don't know

Section 3: Perceived Susceptibility	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
9) Air pollution increases respiratory diseases.					
10) Air pollution increases heart diseases.					
11) Air pollution increases skin diseases.					
12) Air pollution increases lung cancer.					
13) Air pollution increases mental and neurological diseases.					
14) Air pollution reduces the body's immune defense mechanisms.					

Section 4: Perceived Severity	Not at all	A little	Moderately	Very	Extremely
15) How serious and dangerous do you think severe air pollution is in increasing respiratory diseases?					
16) How serious and dangerous do you think severe air pollution is in increasing heart diseases?					
17) How serious and dangerous do you think severe air pollution is in increasing skin diseases?					
18) How serious and dangerous do you think severe air pollution is in increasing lung cancer?					
19) How serious and dangerous do you think severe air pollution is in increasing mental and neurological diseases?					
20) How serious and dangerous do you think severe air pollution is in weakening the immune system?					

Section 5: Perceived Benefits	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
21) Regular technical inspection of my car reduces air pollution.					
22) Using CNG instead of gasoline reduces air pollution.					
23) Regular and timely replacement of the air filter in my car reduces air pollution.					
24) Regular and timely replacement of the oil filter in my car reduces air pollution.					
25) Regular and timely tire pressure checks in my car reduce air pollution.					
26) Paying attention to the color of the exhaust smoke helps detect problems early and reduces air pollution.					
27) Driving at posted speed limits on highways and streets reduces air pollution.					

Section 6: Perceived Barriers	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
28) I do not have enough time to conduct regular car inspections.					
29) Excessive use of CNG is harmful to my car's engine.					
30) I cannot afford to regularly replace the air filter in my car.					
31) I do not have enough time to change the engine oil regularly.					
32) I cannot afford to change the engine oil regularly.					
33) I do not have enough time to check tire pressure regularly.					
34) The low quality of fuel is the main cause of air pollution, and my actions have no effect on reducing it.					

Section 7: Cues to Action	Yes	No
35) Have you seen TV programs about the importance of regular car maintenance (e.g., inspections, oil and filter changes) and its impact on reducing air pollution?		
36) Have you heard radio programs about the importance of regular car maintenance and its effect on reducing air pollution?		
37) Have you read newspapers or magazines about this topic?		
38) Have you seen content on social media (e.g., Telegram, Instagram, etc.) about regular car maintenance and air pollution?		
39) Have you read in your vehicle's manual about regular servicing and its role in reducing air pollution?		

Section 8: Self-Efficacy	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
40) I can regularly conduct technical inspections of my car.					
41) I can replace the air filter on time.					
42) I can change the engine oil on time.					

Section 9: Driving Behavior

1) If your car is dual-fuel, which type of fuel do you usually use?

1) Gasoline 2) CNG 3) My car is not dual-fuel

2) How often do you replace your car's air filter?

1) With every oil change 2) With every two oil changes 3) Every six months 4) No specific routine

3) How often do you replace your car's oil filter?

1) With every oil change 2) With every two oil changes 3) With every three oil changes 4) No specific routine

4) How often do you check and adjust your car's tire pressure?

1) Every two weeks 2) Every month 3) Every six months 4) No specific routine

Item	Always	Often	Sometimes	Rarely	Never
5) Do you pay attention to the color of your car's exhaust smoke?					
6) Do you regularly perform technical inspections of your car?					
7) Do you participate in eco-driving educational workshops or events?					
8) Do you make sure there is no unnecessary weight in your vehicle?					
9) Do you adjust your speed according to posted speed limits on highways and roads?					
10) Do you turn off your engine when stopped for more than 30 seconds or in heavy traffic?					
11) Do you try to drive during off-peak hours to avoid heavy traffic?					