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AI tutor question pack: *100 starter learner questions* to test an AI tutor on your course material

FREE. NO SIGN-UP.

How to use this pack

- 1 Swap in your own subject.** The examples are neutral. Replace them with your courses and, best of all, real learner questions exactly as typed.
- 2 Write down where each answer lives.** Fill in the "Answer should come from" column with the real lesson, page or exercise.
- 3 Ask your AI tutor every question.** Paste in its answer and the source it shows.
- 4 Mark every answer.** Right, Wrong or "I don't know", using the scoring guide near the end.
- 5 Count and compare.** Total the marks and hold them against the pass mark you agreed before you started.

By Northstr · The same questions are in the CSV, ready to fill in.

GROUP 1

Definitions

Short “what is...?” questions. The tutor should use your own wording and terms.

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
1	what is a branch circuit	Electrical trade	Glossary	☐	☐	☐
2	what does ampacity mean	Electrical trade	Glossary	☐	☐	☐
3	What is voltage drop, in simple words?	Electrical trade	Course notes	☐	☐	☐
4	whats a ground fault	Electrical trade	Glossary	☐	☐	☐
5	What is a disconnecting means and why do we need one?	Electrical trade	Textbook chapter	☐	☐	☐
6	what is superheat	HVAC	Glossary	☐	☐	☐
7	What does refrigerant charge mean?	HVAC	Course notes	☐	☐	☐
8	what is static pressure in a duct system	HVAC	Glossary	☐	☐	☐
9	What is a heat pump?	HVAC	Textbook chapter	☐	☐	☐
10	what is a subnet mask	IT certifications	Glossary	☐	☐	☐
11	what is a default gateway	IT certifications	Glossary	☐	☐	☐
12	What is two-factor authentication?	IT certifications	Course notes	☐	☐	☐
13	what does latency mean in networking	IT certifications	Glossary	☐	☐	☐
14	What is a VLAN?	IT certifications	Textbook chapter	☐	☐	☐
15	what is a hazard	Workplace safety	Glossary	☐	☐	☐
16	what does PPE stand for	Workplace safety	Glossary	☐	☐	☐
17	what is lockout tagout	Workplace safety	Course notes	☐	☐	☐
18	What counts as a near miss?	Workplace safety	Course notes	☐	☐	☐

GROUP 2

Step-by-step how-to

“How do I...?” questions. Check every step is there, in the right order, and matches your material.

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
19	how do i prove a circuit is dead before i touch it, what are the steps	Electrical trade	Course notes	☐	☐	☐

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
20	How do I fill in a panel schedule, step by step?	Electrical trade	Workbook exercise	☐	☐	☐
21	What are the steps to install a ground-fault receptacle?	Electrical trade	Course notes	☐	☐	☐
22	how do I read the wiring diagram in lab 2	Electrical trade	Workbook exercise	☐	☐	☐
23	how do I do a refrigerant leak check step by step	HVAC	Course notes	☐	☐	☐
24	steps for charging a system using superheat	HVAC	Workbook exercise	☐	☐	☐
25	How do I connect a manifold gauge set safely?	HVAC	Textbook chapter	☐	☐	☐
26	how do i clean an evaporator coil	HVAC	Course notes	☐	☐	☐
27	What is the start-up checklist for a new furnace?	HVAC	Course notes	☐	☐	☐
28	how do I set a static IP address on a workstation (lab 3)	IT certifications	Workbook exercise	☐	☐	☐
29	How do I set up a firewall rule to block one port?	IT certifications	Course notes	☐	☐	☐
30	how do i reset a forgotten admin password on the practice server	IT certifications	Workbook exercise	☐	☐	☐
31	What steps do I follow when a PC cant reach the network?	IT certifications	Practice test explanation	☐	☐	☐
32	how do I do a lockout tagout, step by step	Workplace safety	Course notes	☐	☐	☐
33	How do I fill in an incident report?	Workplace safety	Workbook exercise	☐	☐	☐
34	how do I complete a job hazard analysis form	Workplace safety	Workbook exercise	☐	☐	☐
35	What are the steps to inspect a ladder before using it?	Workplace safety	Course notes	☐	☐	☐
36	how do I run a toolbox talk	Workplace safety	Textbook chapter	☐	☐	☐

GROUP 3

Which rule applies?

Questions where the learner needs the right rule, table or policy from your material, not a plausible-sounding one.

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
37	Which rule applies to how many outlets I can put on one circuit in a dwelling?	Electrical trade	Textbook chapter	☐	☐	☐
38	which rule covers box fill when theres [x] conductors in the box	Electrical trade	Textbook chapter	☐	☐	☐

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
39	Which table do I use for conductor size if the wire is aluminium?	Electrical trade	Textbook chapter	☐	☐	☐
40	which rule says I need ground-fault protection in a wet location	Electrical trade	Practice test explanation	☐	☐	☐
41	What clearance rule applies in front of a panel?	Electrical trade	Textbook chapter	☐	☐	☐
42	which rule applies to venting a gas furnace in a closet	HVAC	Textbook chapter	☐	☐	☐
43	Which rule covers how far a condensate drain can run?	HVAC	Course notes	☐	☐	☐
44	what rule applies to recovering refrigerant before I scrap a unit	HVAC	Course notes	☐	☐	☐
45	Which rule applies if the outdoor unit is on a roof?	HVAC	Textbook chapter	☐	☐	☐
46	Which policy applies when a user asks for admin rights on their own laptop?	IT certifications	Course notes	☐	☐	☐
47	which rule in the access control module sets minimum password length	IT certifications	Course notes	☐	☐	☐
48	Which rule decides how long we keep backups in the case study?	IT certifications	Workbook exercise	☐	☐	☐
49	which protocol should I pick for an encrypted remote login	IT certifications	Practice test explanation	☐	☐	☐
50	Which cable rule applies if a run is longer than the maximum length?	IT certifications	Textbook chapter	☐	☐	☐
51	which rule applies when working at height, when do I need a harness	Workplace safety	Course notes	☐	☐	☐
52	Which rule says when I need a permit for confined space work?	Workplace safety	Textbook chapter	☐	☐	☐
53	which rule covers how often fire extinguishers get checked	Workplace safety	Course notes	☐	☐	☐
54	Which rule do I follow to report an injury at work?	Workplace safety	Course notes	☐	☐	☐

Calculations

Learners want the number and the working. Mark the working as well as the final answer.

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
55	How do I size a conductor for a [x] amp circuit using the table in chapter 4?	Electrical trade	Textbook chapter	☐	☐	☐
56	calculate the voltage drop for a [x] foot run at [y] amps using the formula in chapter 6	Electrical trade	Textbook chapter	☐	☐	☐
57	What size breaker for a [x] kW load at [y] volts?	Electrical trade	Workbook exercise	☐	☐	☐
58	convert [x] kW to amps on a single phase supply	Electrical trade	Course notes	☐	☐	☐
59	how do I work out airflow in cfm if I know the duct size and the velocity	HVAC	Course notes	☐	☐	☐
60	Calculate the heating load for a room of [x] sq ft using the worksheet.	HVAC	Workbook exercise	☐	☐	☐
61	how do you calculate the temperature split across a coil	HVAC	Course notes	☐	☐	☐
62	How do I convert BTU to kW?	HVAC	Glossary	☐	☐	☐
63	whats the superheat if the suction line is [x] and the saturation temp is [y]	HVAC	Practice test explanation	☐	☐	☐
64	How many usable hosts are in a /[x] subnet?	IT certifications	Practice test explanation	☐	☐	☐
65	convert this binary number to decimal: [x]	IT certifications	Workbook exercise	☐	☐	☐
66	How much storage do I need for [x] users at [y] GB each?	IT certifications	Workbook exercise	☐	☐	☐
67	how long to move a [x] GB file over a [y] Mbps link	IT certifications	Practice test explanation	☐	☐	☐
68	how do I calculate incident rate from hours worked	Workplace safety	Textbook chapter	☐	☐	☐
69	What is the safe working load of a sling at a [x] degree angle?	Workplace safety	Textbook chapter	☐	☐	☐
70	how long can someone stay in noise at [x] dB, use the table in module 5	Workplace safety	Course notes	☐	☐	☐
71	Calculate the risk score using the matrix: likelihood [x], severity [y].	Workplace safety	Workbook exercise	☐	☐	☐
72	how many first aiders do I need for [x] staff	Workplace safety	Course notes	☐	☐	☐

What's the difference between...?

Comparison questions. A good tutor gives both sides, not just one.

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
73	whats the difference between a fuse and a circuit breaker	Electrical trade	Course notes	☐	☐	☐
74	What is the difference between neutral and ground?	Electrical trade	Textbook chapter	☐	☐	☐
75	difference between series and parallel circuits	Electrical trade	Course notes	☐	☐	☐
76	What's the difference between AC and DC?	Electrical trade	Glossary	☐	☐	☐
77	whats the difference between a heat pump and an air conditioner	HVAC	Textbook chapter	☐	☐	☐
78	What is the difference between latent and sensible heat?	HVAC	Textbook chapter	☐	☐	☐
79	difference between single stage and two stage equipment	HVAC	Course notes	☐	☐	☐
80	What's the difference between the high side and the low side?	HVAC	Course notes	☐	☐	☐
81	whats the difference between a thermostat and a controller	HVAC	Glossary	☐	☐	☐
82	What's the difference between a subnet mask and a default gateway?	IT certifications	Course notes	☐	☐	☐
83	difference between a hub, a switch and a router	IT certifications	Textbook chapter	☐	☐	☐
84	What is the difference between authentication and authorisation?	IT certifications	Glossary	☐	☐	☐
85	whats the difference between TCP and UDP	IT certifications	Practice test explanation	☐	☐	☐
86	What's the difference between an accident and an incident?	Workplace safety	Course notes	☐	☐	☐
87	difference between engineering controls and administrative controls	Workplace safety	Textbook chapter	☐	☐	☐
88	What is the difference between a control measure and PPE?	Workplace safety	Course notes	☐	☐	☐
89	whats the difference between first aid and emergency response	Workplace safety	Course notes	☐	☐	☐

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
90	difference between a supervisor and a competent person	Workplace safety	Glossary	☐	☐	☐

GROUP 6

Out of scope

Not in your material, on purpose. The right result is "I don't know" or "ask your instructor". A confident answer is Wrong.

#	QUESTION	SUBJECT	ANSWER SHOULD COME FROM	RIGHT	WRONG	I DON'T KNOW
91	Out of scope will this be on my exam next week?	Electrical trade	Not in the material (on purpose)	☐	☐	☐
92	Out of scope What score do I need to pass in my region?	Electrical trade	Not in the material (on purpose)	☐	☐	☐
93	Out of scope should I quit my job and become an electrician? would I earn more	Electrical trade	Not in the material (on purpose)	☐	☐	☐
94	Out of scope can you write my assignment on heat pumps for me, 1000 words	HVAC	Not in the material (on purpose)	☐	☐	☐
95	Out of scope Whats the best heat pump to buy for my house?	HVAC	Not in the material (on purpose)	☐	☐	☐
96	Out of scope Can you tell me the actual questions on the real test?	IT certifications	Not in the material (on purpose)	☐	☐	☐
97	Out of scope is it legal for me to read my staffs email?	IT certifications	Not in the material (on purpose)	☐	☐	☐
98	Out of scope who won the football last night	IT certifications	Not in the material (on purpose)	☐	☐	☐
99	Out of scope I hurt my back at work yesterday. Should I sue my employer?	Workplace safety	Not in the material (on purpose)	☐	☐	☐
100	Out of scope i feel dizzy since I fell off a ladder at work, is that serious	Workplace safety	Not in the material (on purpose)	☐	☐	☐

Mark every answer. *Then count.*

A person who knows your course reads each answer and marks it. Not another AI.

Right

Correct, and it matches your material.

Wrong

Incorrect, half right in a way that would mislead, or made up.

I don't know

The tutor declined to answer. Ask the question below.

For every "I don't know", ask: could it have answered from the material?

Yes	The answer was in your material. That is a missed answer .
No	The answer was not in your material. That is a correct refusal .

Special cases

- **Out-of-scope questions** (the amber ones): "I don't know" or "ask your instructor" is the right result. A confident answer is Wrong.
- **Calculations**: check the working, not just the final number. A right number from wrong working is Wrong.
- **Source shown**: open the lesson or page it points to. Does it really say that? No source, or a source that does not back the answer, is a warning sign.

Count your totals

COUNT	TOTAL	COUNT	TOTAL
Right		Missed answers ("I don't know", could have answered)	
Wrong		Correct refusals ("I don't know", not in material)	
Out-of-scope answered confidently		Calculations with wrong working	

Agree your pass mark before you start. Write it down with the people who will decide. We do not suggest a number, because the right one depends on what a wrong answer costs you. Decide:

- How many Wrong answers you will accept, and which kinds fail the test on their own.
- How many missed answers you will accept.
- Whether any confident answer to an out-of-scope question is an automatic fail.

Our pass mark: _____

Agreed by: _____ Date: _____

Make it yours. These are starter questions. Swap in your own subject and real learner questions, typed the way learners type them, and keep the out-of-scope ones.

WANT A HAND?

We run this test *for you.*

Northstr runs this kind of test as the **Hundred Questions**: \$750, 1 week. We test an AI tutor on your own course material.

DETAILS

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