
**Alabama Natural Gas Association
Gas Worker
Training & Assessment Program**

PLAN A ASSESSMENT

Trainee Name: _____ Date of Assessment: _____

Evaluator Conducting Assessment: _____ Location: _____

Evaluator: *Conduct the assessment for one trainee at a time. Do not give the trainee the answers or lead him/her in any way. The assessment should be conducted in a quiet and un-rushed environment if possible. Do not conduct the assessment prior to the end of the 30-day period, but as close as possible to the 30-day period (not more than 5 days later). Correct the trainee during the evaluation process and demonstrate the correct method (if applicable). Record performance on this evaluation sheet.*

Properties & Characteristics of Natural Gas	Trainee Passed	Trainee Failed
<i>Ask the trainee the following questions about Natural Gas</i>		
1) <i>What is the flammability range of natural gas?</i>		
Answer: 5 – 15%		
2) <i>What is the combustion by-product of natural gas?</i>		
Score: CO ₂		
3) <i>What is mercaptan and why is it important?</i>		
Score: It is the additive to natural gas to make it smell. Without mercaptan gas is odorless, and a gas leak could be much more severe/deadly before detection.		
4) <i>What is LEL and UEL? What do these mean?</i>		
Score: Lower Explosive Limit and Upper Explosive Limit.		

Properties & Characteristics of Natural Gas	Trainee Passed	Trainee Failed
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- 5) *Explain low, medium, and high pressure. How do you identify? Adjust the question to fit your company.*

Score: Provides correct information about various pressures based on Company.

Proper Safety Equipment & Concerns Regarding Surroundings	Trainee Passed	Trainee Failed
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Tell the trainee the following: *I'm going to give you a number of different situations that you would encounter on the job. Please tell me what PPE you would wear or use in each.*

- 1) *What PPE would you wear when cutting and threading pipe?*

Answer: Safety glasses, cut-proof gloves, hard hat, steel toed boots

- 2) *What about when working around blowing gas?*

Answer: Score based on your Company's standards.

- 3) *What are your major concerns when working a job in a high traffic neighborhood?*

Answer: Keeping an eye on traffic, possible bystanders, etc.

- 4) *In what situation would you use your breathing equipment?*

Answer: Anytime gas is blowing

- 5) *What is the proper procedure if there is a fire?*

Answer: Have the fire extinguisher present. Wear fire retardant clothing

Tools, Equipment & Material	Trainee Passed	Trainee Failed
Place most of the tools and equipment mentioned in the Plan A Tools & Equipment list on a table or make it available in the area of the testing (being certain to include all the tools and equipment needed to complete the assessment). Then ask the following questions or instruct the Trainee to do the following and record whether he/she passed or failed.		
1) Point to a closed valve for which a valve wrench is the appropriate tool to open and ask: <i>If I asked you to open this valve, what tool including what size would you use?</i>		
Score: Indicates the correct size Valve Wrench		
2) <i>Put this ball valve on this pipe</i>		
Score: Should use Channel Locks or appropriate Pipe Wrench or Crescent Wrench properly		
3) <i>Put this elbow on this piece of 3" pipe</i>		
Score: Should use a Pipe Wrench properly		
4) <i>Take this nut off the bolt and then put it back on</i>		
Score: Should use a Socket Wrench properly		
5) <i>Make a 1/4" hole in this steel plate</i>		
Score: Should use a drill press properly with the appropriate size bit		
6) <i>Cut 3 1/4" off this piece of pipe</i>		
Score: Uses the Band Saw correctly		

Score: Pipe is cut to correct length

7) Please check the _____ area for a leak.

Score: Trainee correctly uses the leak detection equipment to check the designated area for a leak.

8) Perform a cadweld/exothermoweld on this piece of pipe to bond this tracer wire to the pipe.

Score: Trainee cleans the pipe, correctly bonds the wire, and the cadweld/exothermoweld sticks.

Provide the Trainee with the tape measuring questions. Give the Trainee the following instructions: *I am providing you with drawings of a tape measure. I want you to assume that the dark mark on each drawing is the amount you must measure for each item. You'll notice that for each item you've been given four optional answers. One of these is the correct answer.*

9) b. 14-3/4"

10) d. 30-5/8"

11) a. 23-5/8"

12) a. 49-7/8"

13) d. 20-5/8"

14) c. $31\text{--}1/8''$

15) b. $23\text{--}3/4''$

16) a. $44\text{--}3/8''$

17) d. $61\text{--}1/2''$

18) a. $15\text{--}1/8''$

Types & Sizes of Pipes & Fittings	Trainee Passed	Trainee Failed
<i>Ask the following questions:</i> 1) <i>Bring me a 1" 90 and a piece of 1" steel pipe</i> Score: Trainee does what was requested.		
2) <i>Bring me a ¾ tee and a piece of ¾ PE pipe</i> Score: Trainee does what was requested.		
3) <i>Bring me a ¾" EFV</i> Score: Trainee does what was requested.		
4) <i>Name the most common fittings that go on service lines</i> Score: (Must say all but regulator) • Valve • Riser • Tapping tee • Flow valve • Pipe and wire • Regulator		
5) <i>Bring me a ¾" female steel to poly Mueller transition</i> Score: Trainee does what was requested.		

Gauges	Trainee Passed	Trainee Failed
1) <i>Pressure test this pipe to one and a half times 30 lbs. psi</i>		
Score: Does as requested. Zeroes out the gauge.		
2) <i>Show me how you know that this is within calibration.</i>		
Score: Demonstrates that the gauge is correctly calibrated		
3) <i>Bring me a low pressure gauge.</i>		
Score: Does as requested.		
4) <i>Bring me a high pressure gauge.</i>		
Score: Does as requested.		
5) <i>When would you use a low pressure gauge and when would you use a high pressure gauge?</i>		
Score: High pressure – pressure testing or setting pressure on higher pressure main. Low pressure – service.		

Conducting a Soap Test	Trainee Passed	Trainee Failed
Instruct the trainee to do the following		
1) <i>Conduct a soap test on this pipe</i>		
Score: Trainee does what is requested		

Utility Colors		Trainee Passed	Trainee Failed
Ask the trainee the following: <i>Tell me what utilities the following colors represent.</i>			
1) Yellow			
Score: Gas, Hydrogen, Oil			
2) Orange			
Score: Fiber, Phone, Telecommunication			
3) Red			
Score: Power			
4) Green			
Score: Sewer			
5) Blue			
Score: Water			
6) White			
Score: Proposed Digging/Work Area			
7) Pink			
Score: Survey			