

## Instructions for Evaluating Torch Operators

In this exercise you will observe each roofing torch operator as he or she performs each step of the exercise. Circle the number you feel represents how well the operator performed on each step. Keep in mind that everyone uses a torch differently, so please only base your scores on the way each step is described.

**Torch Operator's Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Scoring			<i>You will score a 1 or a poor score if your teammate's work does not meet the CERTA standards for safety. Score your teammate a 2 or give him a fair mark if he has accomplished the task but there was room for improvement. Your teammate will score a 3 or excellent because he is practicing all the safety elements that the CERTA program requires</i>
1	2	3	
Poor	Fair	Excellent	

Evaluation Step	Scoring		
<b>Step 1 – Lighting a torch</b>			
1. Wears proper PPE	1	2	3
2. Closes all valves and opens regulator	1	2	3
3. Points torch away from himself or herself and others	1	2	3
4. Slowly opens cylinder valve	1	2	3
5. Slowly opens pilot valve	1	2	3
6. Uses a spark lighter	1	2	3
7. Adjusts torch valve(s)	1	2	3
8. Tests torch operation using trigger	1	2	3
<b>Step 2 - Flashing box stations 1 and 2: flashing torch and flop</b>			
<b>Scoring</b>			
9. Wears proper PPE	1	2	3
10. Measures and pre-cuts flashing strips	1	2	3
11. Positions cut flashing strip upside down away from box curb	1	2	3
12. Evenly heats back of flashing strips without damage to substrate	1	2	3
13. Lifts flashing strip with trowel, grips it and flops it into place	1	2	3
14. Presses flashing firmly into place	1	2	3
<b>15. Never touches the flashing box with use of high output torch</b>	1	2	3
<b>Step 3 - Field mock-up stations 3 and 4: starting field membranes at roof edges or walls</b>			
<b>Scoring</b>			
1. Wears proper PPE	1	2	3
2. Rolls membrane out 6 to 10 feet and positions in place	1	2	3
3. Stands on roll and flops membrane back	1	2	3
4. Evenly heats back of membrane without damage to substrate	1	2	3
5. Lifts membrane with trowel, grips it and flops it into place	1	2	3
6. Steps membrane in place and trowels lapped seam	1	2	3
<b>7. Never touches the wall or edge with a flame</b>	1	2	3
<b>Step 4 - Field mock-up stations 3 and 4: installing target sheet at drain</b>			
<b>Scoring</b>			
1. Wears proper PPE	1	2	3
2. Measures and pre-cuts target sheet including finger cuts	1	2	3
3. Positions cut target sheet upside down away from drain opening	1	2	3
4. Evenly heats back of target sheet without damage to substrate	1	2	3
5. Lifts target sheet with trowel, grips it and flops it into place	1	2	3
6. Presses target sheet firmly into place with trowel	1	2	3
<b>7. Never touches the roof drain with a flame</b>	1	2	3



Step 5 - Field mock-up stations 3 and 4: installing field membrane over drain	Scoring		
1. Wears proper PPE	1	2	3
2. Stops advancing roll before reaching drain	1	2	3
3. Rolls membrane over drain without heating; marks and cuts drain opening	1	2	3
4. Pulls roll back to expose bottom of membrane	1	2	3
5. Evenly heats membrane without damaging substrate	1	2	3
6. Lifts roll and flops the heated membrane over drain and into place	1	2	3
7. Immediately steps membrane into place and trowels around drain and lapped seam	1	2	3
<b>8. Never touches the roof drain with a flame</b>	1	2	3
Step 6 - Field mock-up stations 3 and 4: installing field membrane around pipe penetration	Scoring		
1. Wears proper PPE	1	2	3
2. Stops advancing roll before reaching pipe	1	2	3
3. Lifts and unrolls the roll backward, exposing underside of membrane far enough to extend beyond pipe	1	2	3
4. Pulls the extended membrane beyond penetration without heating and lays sheet up against pipe	1	2	3
5. Cuts and dry-fits membrane tightly around pipe	1	2	3
6. Pulls membrane roll backward and lays it upside down away from pipe	1	2	3
7. Evenly heats the membrane without damaging the substrate	1	2	3
8. Lifts roll and lays the membrane into place around pipe	1	2	3
9. Immediately steps heated membrane into place and trowels lapped seams	1	2	3
<b>10. Never touches the pipe with a flame</b>	1	2	3
Step 7 - Field mock-up stations 3 and 4: ending field membranes at roof edges and walls	Scoring		
1. Wears proper PPE	1	2	3
2. Stops heating the roll before reaching wall or edge	1	2	3
3. Extends roll without heating to the wall or roof edge and cuts to length	1	2	3
4. Pulls unheated membrane back to the point it is fully bonded to substrate	1	2	3
5. Evenly heats the membrane without damaging the substrate; lifts heated membrane using a trowel; grips it and flops it into place	1	2	3
6. Immediately steps heated membrane into place and trowels lapped seams	1	2	3
<b>Never touches the wall or edge with a flame</b>	1	2	3
Step 8 - Shutting off the torch	Scoring		
1. Sets lit torch down on its stand away from propane cylinder	1	2	3
2. Walks over to cylinder and closes the valve tightly	1	2	3
3. Returns to torch and squeezes trigger to burn out remaining gas from hoses and regulator	1	2	3
4. Closes all torch valves	1	2	3

Thank you for participating in the MRCA's Certified Roofing Torch Applicator Program!

Please remember to record the evaluation's results on the final CERTA Roster and submit all forms and video clips within 14 days of your course date by email to [certa.eval@mrca.org](mailto:certa.eval@mrca.org)

For any questions regarding technical issues or regarding the Hands-On Evaluation process please feel free to call at any time for support to the CERTA help line at (937) 306-2132