

# Performance Profile Sheet (Page 1 of 2)

NCCER Training

**Craft:** Pipeline Corrosion Control Level 1  
**Module:** CT4\_2-17  
**Module Title:** Repair or Replace Defective Rectifier Components



**Trainee Name:**

**Training Program Sponsor:**

**Instructor:**

**Rating Levels:** (1) Passed: performed task (2) Failed: did not perform task  
 Also, list the date the testing for each task was completed.

**Recognition:** When testing for the NCCER Training Program, be sure to record Performance testing results on the Registration of Training Modules form, and submit the results to the Training Program Sponsor.

OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
2	Repair or replace defective rectifier components (CT 4_2-17).				
	Identify potential abnormal operating conditions that may occur during performance of this CT, and know the appropriate actions to take in response to them.				
	Utilize the appropriate personal protective equipment according to relevant company procedures.				
	Prior to performing any of the following steps, turn off external AC supply to the rectifier.				
	Complete the following on the primary AC breaker: <ul style="list-style-type: none"> <li>- Disconnect wires from the supply to the breaker.</li> <li>- Disconnect wires from the breaker to the rectifier.</li> <li>- Replace defective breaker with a new breaker.</li> <li>- Connect wires from the breaker to the rectifier.</li> <li>- Connect wires from the AC supply to the breaker.</li> </ul>				

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OBJECTIVE	TASK	RATING	DATE	START TIME	END TIME
	Complete the following on primary AC fuses: <ul style="list-style-type: none"> <li>- Remove fuse or fuses.</li> <li>- Replace defective fuse or fuses with proper size fuse(s).</li> <li>- Complete the following on the transformer:                             <ul style="list-style-type: none"> <li>- Disconnect wires from the rectifier AC breaker to the transformer.</li> <li>- Disconnect wires from the transformer to the coarse and fine tap panels.</li> </ul> </li> <li>- Replace defective transformer with a new transformer.</li> <li>- Connect wires from the transformer to the coarse and fine tap panel.</li> <li>- Connect wires from the transformer to the AC rectifier breaker.</li> </ul>				
	Complete the following on the stack: <ul style="list-style-type: none"> <li>- Disconnect wires from the fine and coarse tap panel to the stack.</li> <li>- Disconnect wires from the stack to the positive and negative DC output terminals.</li> <li>- If the stack is selenium, remove the stack and replace with a new stack.</li> <li>- If the stack is silicon, remove the defective diodes and replace them with new diodes.</li> <li>- Connect wires from the stack to the positive and negative DC output terminals.</li> <li>- Connect wires from the fine and coarse tap panel to the stack.</li> </ul>				
	Complete the following on DC fuses: <ul style="list-style-type: none"> <li>- Remove fuse or fuses.</li> <li>- Replace defective fuse or fuses with proper size fuse(s).</li> </ul>				
	Examine rectifier for any abnormal defects. Does rectifier need adjusting? If so, seek assistance from appropriate personnel for additional investigation and corrective actions before making any adjustments.				
	Complete appropriate documentation as required by operator's procedures.				