

## Checklist – Course 'Rail Welding – Stick Electrodes or Self Shielded Wire'

Infrastructure	Number (per team)	Available / checked
<b>Training room</b> with tables and chairs, whiteboard / flipchart	1	
<b>Welding Jig</b> (fixture system for welding exercises) see also <a href="http://www.cerncic.at/english-overview/downloads/rail-welding/'Sketch of a Welding Jig'">http://www.cerncic.at/english-overview/downloads/rail-welding/'Sketch of a Welding Jig'</a>	1	
<b>Tools and Devices</b> <i>All in good condition! Welders have to be familiar with their equipment!</i>	per team	
<b>Welding tools</b> (Hammer, wedges, wire brush, chisel ...)	1 Set	
<b>Grinding machine</b> (for grinding the joint)	1	
<b>Welding machine</b> (complete: power supply, welding machine, wire feeder, cables, electrode holder, earth terminals suitable for construction site)	1	
<b>Preheating / torch cutting equipment</b> (complete, tested according valid regulations)	1	
<b>Additional tools</b> (wrench for rail fastenings, crowbar ...)	1	
<b>'Cold Saw'</b> (disc cutter, well condition, sufficient cutting wheels)	1 for 2 teams	
<b>Consumables</b>		
<b>Welding consumables</b> (electrodes, Innershield wire...)	sufficient	
<b>Gas – Oxygen, heating / cutting gas</b> (for preheating and cutting)	sufficient	
<b>Fuel</b> (for power supply, 'cold saw' ..)	sufficient	
<b>Rail sections for welding exercises</b> (70 cm each , appropriate rail profil, suitable to welding jig!)	6 per welder	
<b>Rail sections for grinding exercises</b> (approx. 3 m)	2 to 3 per welder	
<b>Rail section for torch cutting exercises</b> (approx. 1 to 3 m)	2 per welder	
<b>Personal Safety Equipment</b>		
According to company and national regulations	sufficient	

Explanation: 1 team ... 2 persons

### Note:

Time schedule for course is tight! Therefore all preparation work has to be done carefully! It is a pity and inefficient when precious time of the course has to be used for repairing tools, preparing welding sites, searching for suitable rails ...

Check of the equipment is normally part of the welder examination and therefore basis for the evaluation of the welder. Equipment that is bad maintained (e.g. burrs on wedges or hammers, bad seals at gas equipment, missing devices (suitable wire brush,...) ...) can be a reason for failing the exam.

This checklist is not complete! It should give you an idea, it just shows some important items!

**If any questions arising → please contact me:**

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