

## Smelter Operations, Tapping a furnace by means of lancing

**Introduction:** The process of opening the tap hole by means of an oxygen lances.

### SAQA unit standard ID number – 114881

<p><b>Target group:</b></p> <p>All relevant production employees, artisans, or, as required per production needs, without previous certification</p> <hr/> <p><b>Entry Level Requirements:</b></p> <ul style="list-style-type: none"> <li>▪ Minimum Literacy and Numeracy ABET 4 or NQF 1 or RPL, Grade 9</li> </ul>	<p><b>Certification:</b></p> <ul style="list-style-type: none"> <li>▪ Theoretical assessments = 80% pass rate</li> <li>▪ Practical assessments = Competent or Not Yet Competent</li> <li>▪ 2 re-writes allowed per module</li> </ul> <p><b>If competent a competence certificate will be issued</b></p>	<p><b>Duration:</b></p> <p>10 Days</p>
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### COURSE OUTLINE

<ul style="list-style-type: none"> <li>▪ Safety Steps and Risk Assessment</li> <li>▪ The hazards and risks associated, pertaining to OHS Act, 1993 and General Machinery regulations</li> <li>▪ Electrocutation and Burns</li> <li>▪ Safe working procedures</li> <li>▪ Unsafe conditions and acts</li> <li>▪ Heat stress Hazards</li> <li>▪ Appropriate Personal protective equipment</li> <li>▪ Prevention of minor injuries and burns</li> <li>▪ Exposure to dust and gases</li> <li>▪ Legislation</li> <li>▪ Examining and using tools and equipment</li> <li>▪ Main components of lancing equipment</li> <li>▪ Base line risk assessment</li> <li>▪ Prepare to tap the furnace</li> <li>▪ Burn the taphole open with a oxygen lance</li> <li>▪ Complete duties preparing the tapping process</li> </ul>	<p><b>Duration:</b></p> <p>10 Days</p>
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