

## Smelter Operations, Controlling the slipping of electrodes to maintain electrode lengths

**Introduction:** Understand the theory of self baking or self forming paste electrodes as well as prefabricated carbon electrodes and the application for electrical Arc furnace

**SAQA unit standard ID number – 259694 & 259685**

<b>Target group:</b> All relevant production employees, artisans, or, as required per production needs, without previous certification	<b>Certification:</b> <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>	<b>Duration:</b> 15 Days
<b>Entry Level Requirements:</b> <ul style="list-style-type: none"><li>▪ Minimum Literacy and Numeracy ABET 4 or NQF 3 or RPL, Grade 9</li></ul>	<b>If competent a competence certificate will be issued</b>	

### COURSE OUTLINE

<ul style="list-style-type: none"><li>▪ Safety Steps and Risk Assessment</li><li>▪ The hazards and risks associated, OHS Act,1993 and General Machinery regulations</li><li>▪ Information on electrical ARC furnace</li><li>▪ Information on furnace electrodes</li><li>▪ Paste electrode column</li><li>▪ Paste electrode management</li><li>▪ Slipping and baking of paste electrodes</li><li>▪ Slipping or re-gripping the fabricated Graphite electrodes</li><li>▪ Appropriate Personal protective Equipment</li><li>▪ Safe working procedures</li><li>▪ Affected parties and team members</li><li>▪ Lockout procedure and the consequences of non –compliance</li></ul>	<b>Duration:</b> 15 Days
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