

Smelter Operations, Controlling The Furnace Cooling System

Introduction: Understand the importance and necessity for cooling of electrical circuits and furnace operation

SAQA unit standard ID number – 259694 & 259685

<p>Target group:</p> <p>All relevant production employees, artisans, or, as required per production needs, without previous certification</p> <hr/> <p>Entry Level Requirements:</p> <ul style="list-style-type: none"> ▪ Minimum Literacy and Numeracy ABET 4 or NQF 3 or RPL, Grade 9 	<p>Certification:</p> <ul style="list-style-type: none"> ▪ Theoretical assessments = 80% pass rate ▪ Practical assessments = Competent or Not Yet Competent ▪ 2 re-writes allowed per module <p>If competent a competence certificate will be issued</p>	<p>Duration:</p> <p>15 Days</p>
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COURSE OUTLINE

<ul style="list-style-type: none"> ▪ Safety Steps and Risk Assessment ▪ The hazards and risks associated, pertaining to OHS Act,1993 and General Machinery regulations ▪ Cooling of heat generated by the Furnace transformer ▪ The cooling tower ▪ The cooling water supply pump ▪ Furnace shell cooling and inspection ▪ Protection and cooling of furnace doors ,frames and roofs ▪ Cooling of furnace bottoms ▪ Temperature control for paste electrodes ▪ Monitoring and control of furnace cooling system ▪ Temperature recording and monitoring of furnace linings ▪ Furnace shell cooling and inspection ▪ Furnace equipment cooling ▪ Safe working procedures ▪ Actions to be taken should sub standard conditions and problems occur 	<p>Duration:</p> <p>15 Days</p>
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