




**Name:** Advance Draughting

**Programme:** National Diploma: Structural Steelwork Detailing (NQF5) (E-learning)  
SAQA ID: 48636

**Part-time:** E-learning

<p><b>Description</b> Become a specialist in Structural Steelwork Detailing. The qualification has been developed to assist with standardization across the steel construction industry. This will allow a person to register as a structural steel detail draughtsperson and lay a foundation for future career advancement to supervisory and management qualifications within the sector.</p> <p><b>Admission requirements</b> Learner must have required mathematical numeracy (geometry and trigonometry) communication and information technology and draughting skills (freehand and 3-dimensional) at NQF3-4 level.</p> <p><b>This candidate must understand and have experience in Shop Detailing, which are detailing of beams, columns, grids, platforms and understand GA's.</b></p> <p><b>Selection Procedure</b> Access to this qualification is open, bearing in mind learning assumed, to be in place.</p> <p><b>Programme content</b></p> <ul style="list-style-type: none"> <li>• Communication</li> <li>• Numeracy</li> <li>• Connection design and draughting practice techniques for basic structural steelwork assemblies</li> <li>• Strength of materials</li> <li>• Regulations, codes and drawing office practice on structural steel detailing processes</li> <li>• Processes and sequences of the production of the detail drawings integrated with fabrication and site functions. Impact of these on time and cost of producing quality products within a contract</li> <li>• Bracing systems, mechanical properties and load bearing calculations are illustrated.</li> <li>• Quality Control of fabrication assembly</li> </ul>	<p>and erection of structural steelwork</p> <ul style="list-style-type: none"> <li>• 3D Computer modeling techniques</li> <li>• Drawing layouts according to drawing office practice and setting out points are calculated.</li> </ul> <p><b>Duration</b> Two year (257 credits)</p> <p><b>Course Fees (R25 000.00 per year)</b> Monies are payable upfront or with a study loan. City &amp; Guilds certificate.</p> <p><b>Additional Costs (books, etc)</b> Red, Yellow, Green and Blue Books additional.</p> <p><b>Career path/ Opportunities</b></p> <ul style="list-style-type: none"> <li>• Structural Mechanics and design</li> <li>• Structural drawing and design</li> <li>• Structural Engineer</li> </ul> <p><b>Certification</b> On successful completion of the programme, the student will receive a City and Guilds endorsed African Academy Certificate.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">  <p><b>ACCREDITED</b></p> </div> <p>City &amp; Guilds is a globally recognized and respected awarding organization and serves as a benchmark for educational quality.</p> <p><b>Disclaimer</b> The content of this brochure, accurate at the time of going to print, is subject to change without notification due to legislation, market requirements or any other reason. African Academy reserves the right to any change without notice.</p>
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**\*Student packages can be downloaded from Autodesk.**