

Manninga

Leaders in innovative engineering excellence



01



A productive morning in an engineering consulting firm begins with collaboration. Our team gathers to discuss projects, plan priorities, solve challenges, and align as a team. Every successful engineering solution starts with great communication and teamwork.

02



Before heading to site, the team meets to review the day's tasks, identify potential hazards, and confirm safety procedures. Students ensure they have the required PPE, reinforcing that preparation and safety come first.

03



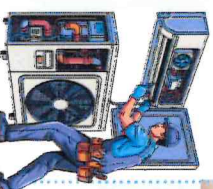
Before the site visit, the team reviews the project's journey from design to final installation. The Flower Hall Mechanical HVAC Design & installation project for the University of the Witwatersrand involved a complete HVAC modernisation within an existing, occupied building.

04



Students had the opportunity to observe the installation of equipment and ductwork carried out in accordance with SANS 10400 Part A and the client's project requirements.

05



During the site visit, learners observed the installation of cable trays, gaining practical insight into HVAC installation, SANS-compliant engineering practices, and how classroom knowledge is applied in real-world projects.

08



Learners observed the commissioning of VRF condenser units in the HVAC plantroom, gaining insight into system testing, inspection, and final verification before handover.

06



Learners observed the installation of an HVAC air distribution system, gaining practical insight into how fresh air is introduced, conditioned, and distributed through ducting. The experience highlighted the importance of proper airflow, ventilation, and ducting design for efficient, high-performing HVAC systems.

07



Students observed the installation of a dedicated electrical distribution board and control system for the HVAC unit, gaining practical insight into the integration of electrical and mechanical services while understanding the importance of complying with SANS 10142-1 for safe and reliable installations.

10



Learners were awarded Job Shadowing Certificates in recognition of successfully completing the HVAC site observation and practical workplace learning programme. Through hands-on exposure to real-world engineering projects, they gained valuable insight into the consulting engineering profession while demonstrating a strong commitment to their professional development.

09



After the site visit, learners returned to the office where they presented their findings and reflections from the day. They consolidated their observations from the HVAC site, connecting practical experiences with engineering principles and workplace processes.

A DAY IN THE LIFE OF A

CONSULTING
ENGINEER

