

VAAL UNIVERSITY OF TECHNOLOGY

Inspiring thought. Shaping talent.

DEPARTMENT OF CHEMICAL AND METALLURGICAL ENGINEERING

WORKPLACE BASED LEARNING (WBL)

(EHEXL1A)

LOGBOOK

(Weekly Report)

This is a summary of the work you have done and must be completed even though you have a separate report.

Student Surname and Initials:

Student Number:....

Graduate Attributes Assessment

	Level of competence					
Date	Graduate attibutes	Satisfactory	Non- Satisfactory	Comments		

Signature of Student

STATEMENT BY SUPERVISOR: I,.....hereby Certify that the above-mentioned student has completed the summarized assignments correctly, on his/her own and to my approval.

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Graduate Attributes (GA's)

This modules aids to assess the following ECSA defined graduate attributes as applicable to work-place-based learning:

Graduate Attribute 1 (GA1): Problem Solving

Apply engineering principles to systematically diagnose and solve well-defined engineering problems.

Graduate Attributes 2 (GA2): Application of scientific and engineering knowledge

Apply knowledge of mathematics, natural science and engineering sciences to applied engineering procedures, processes, systems and methodologies to solve well-defined engineering problems.

Range Statement: Knowledge of mathematics, natural science and engineering science is characterized by:

- 1. A coherent range of fundamental principles in mathematics and natural science underlying a sub-discipline or recognised practice area.
- 2. A cohence range of fundamental principles in engineering science and technology underlying an engineering sub-discipline or recognised practice area.
- 3. A codified practice knowledge in recognised practice area.
- 4. The use of mathematics, natural sciences and engineering and engineering sciences, supported by established mathematical formulas, codified engineering analysis, methods and procedures to solves well-defined engineering problems.

Graduate Attribute 5 (GA5): Engineering methods, skills, tools, including Information technology

Use appropriate techniques, resources and modern engineering tools including information technology for the solution of well-defined engineering problems, with an awareness of the limitations, restrictions, premises, assumptions and constraints.

Range Statement: A range of methods, skills and tools appropriate to the discipline of the program including:

- 1. Sub-discipline-specific tools processes or procedures
- 2. Computer packages for computation, simulation, and information handling;
- Computers and networks and information infrastructures for accessing, processing, managing, and storing information to enhance personal productivity and teamwork;
- 4. Basic techniques from economics, management, and health, safety and environmental protection.

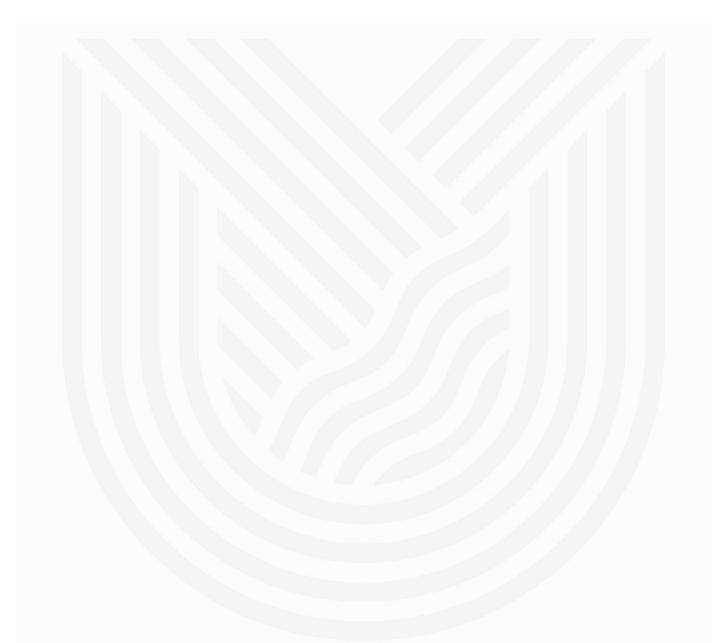
Graduate Attribute 11 (GA 11): Workplace practices

Demonstrate an understanding of workplace practices to solve engineering problems consistent with academic learning achieved.

Note: The purpose of work-integrated learning is to enable the learner to connect academic learning with workplace practice.

Range Statement: Tasks to demonstrate this outcome may be performed in one or more of the following curriculum types:

- 1. Work-directed theoretical learning: in which theoretical forms of knowledge are introduced and sequences in ways that meet both academic criteria and are applicable and relevant to the career-specific components.
- 2. Problem-based learning: where students work in small self-directed groups to define, carry out and reflect on a task which is usually a real-life problem.
- 3. Project-based learning:that brings together intellectual enquiry, real world problems and student engagement in meaningful work.
- 4. Workplace learning: where students are placed in a professional practice or simulated environment within a training programme.
- 5. Simulated learning.



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