



**VAAAL UNIVERSITY  
OF TECHNOLOGY**

*Inspiring thought. Shaping talent.*

**DEPARTMENT OF CHEMICAL AND METALLURGICAL ENGINEERING**

**WORKPLACE BASED LEARNING (WBL)  
(EHEXL1A)**

# LOGBOOK

## STUDENT REPORT (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 attributes	Satisfactory	Non-Satisfactory	Comments

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Signature of Student

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## Graduate Attributes (GA's)

This module 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 coherent 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 solve 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;
3. 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.

