



**VAAL UNIVERSITY OF TECHNOLOGY**  
**Faculty of Engineering**  
**Department of Industrial Engineering and Operations Management**

**PRIVATE BAG**  
**X021**  
**VANDERBIJLPARK**  
**1900**

**TEL: (016) 950**  
**9287**  
**FAX: (016) 950**  
**9797**

**EVALUATION OF EXPOSURE TO IE AREAS, TECHNIQUES AND TOOLS DURING WIL (INDUSTRIAL ENGINEERING) PERIOD**

<b>Student Name:</b>	<b>Student Number:</b>	<b>Company:</b>
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**The student has been exposed to the practical application of the following learning areas during his/her work integrated learning period:**

Health and Safety	<input type="checkbox"/>	First Aid	<input type="checkbox"/>	Workshop Processes	<input type="checkbox"/>
Forecasting	<input type="checkbox"/>	Capacity Planning	<input type="checkbox"/>	Scheduling	<input type="checkbox"/>
Inventory Management	<input type="checkbox"/>	Logistics and Distribution	<input type="checkbox"/>	Quality Management	<input type="checkbox"/>
Project Planning & Control	<input type="checkbox"/>	Productivity Improvement	<input type="checkbox"/>	Design	<input type="checkbox"/>
Facility Layout	<input type="checkbox"/>	Work Measurement	<input type="checkbox"/>	Method Studies	<input type="checkbox"/>
Decision Analysis	<input type="checkbox"/>	Ergonomics	<input type="checkbox"/>	Product Design	<input type="checkbox"/>
Material Handling	<input type="checkbox"/>	Human Factors	<input type="checkbox"/>	Reliability & Maintenance	<input type="checkbox"/>
Planning	<input type="checkbox"/>	Schedule Design	<input type="checkbox"/>	Process design	<input type="checkbox"/>
Resources Optimisation	<input type="checkbox"/>	Project Management	<input type="checkbox"/>	Kanban	<input type="checkbox"/>
Work Sampling	<input type="checkbox"/>	Cost Management	<input type="checkbox"/>	Just in Time (JIT)	<input type="checkbox"/>
Facility Location	<input type="checkbox"/>	Operations Research	<input type="checkbox"/>	ISO	<input type="checkbox"/>

**The following techniques were applied during the work integrating learning period:**

Forecasting	<input type="checkbox"/>	Scheduling	<input type="checkbox"/>	MRP and MPS	<input type="checkbox"/>
JIT and Inventory	<input type="checkbox"/>	Economic Analysis	<input type="checkbox"/>	Critical Examination	<input type="checkbox"/>
Value Analysis	<input type="checkbox"/>	Creative Thinking	<input type="checkbox"/>	Time Study	<input type="checkbox"/>
Facility Layout	<input type="checkbox"/>	Activity Sampling	<input type="checkbox"/>	Process Charting	<input type="checkbox"/>
Feasibility Studies	<input type="checkbox"/>	Computer Aided Design	<input type="checkbox"/>	Work Environment Design	<input type="checkbox"/>
Reliability Studies	<input type="checkbox"/>	Overall Equip. Effectiveness	<input type="checkbox"/>	Equipment monitoring unit	<input type="checkbox"/>
Lean	<input type="checkbox"/>	Six Sigma	<input type="checkbox"/>	Linear Programming	<input type="checkbox"/>
Total Quality Management	<input type="checkbox"/>	Operations Research	<input type="checkbox"/>	TPM (Tot. Prod. Maintenance)	<input type="checkbox"/>

**The following tools were used during application of the abovementioned techniques:**

Stopwatches	<input type="checkbox"/>	Pre-designed Documents	<input type="checkbox"/>	Document Boards	<input type="checkbox"/>
Scientific Calculators	<input type="checkbox"/>	Microsoft Word	<input type="checkbox"/>	Microsoft Excel	<input type="checkbox"/>
Microsoft Project (basic)	<input type="checkbox"/>	Microsoft PowerPoint	<input type="checkbox"/>	Microsoft Visio	<input type="checkbox"/>
MODAPTS	<input type="checkbox"/>	Quantitative Analysis	<input type="checkbox"/>	Qualitative Analysis	<input type="checkbox"/>
MS Project	<input type="checkbox"/>	QM for Windows	<input type="checkbox"/>	Gant Chart	<input type="checkbox"/>

Please note the following comments:

No diploma application will be approved if the student had not been exposed to 6 months of applicable in-service training. Thank you for your effort and hard work with regard to the work integrated learning process

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**Markers Signature**

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**Initials and Surname**

\_\_\_\_\_  
**Date**