

I. Introduction



Company supervisor contact:

The TVET industrial attachment program liaison book is an essential tool for liaise both school and industry during workplace learning. It must be regularly and carefully completed by the TVET learner, company supervisor and TVET teacher as required.

This interactive book serves as an essential document that the learner must always have in his/her possession to record his/her daily performance and progress during industrial attachment program. It should be handed over to the company supervisor for regular checking and to the school supervisor upon visit.

This liaison book contains the following

In this liaison book, you will find 8 different documents:

- The information on trade's competences;
- The learner's attendance sheet that should be signed every day;
- The weekly report sheets filled on daily basis to report the activities performed, the tools and equipment used;
- The Industrial attachment program school supervisor visit form, which will be completed by TVET teacher upon visit;
- The Industrial attachment program (IAP) company supervisor's evaluation form;
- The interview guiding questions which could be taken as reference at the end of the industrial attachment program (IAP) by the panel made of at least 2 teachers and the company supervisor, to assess the performed activities and the industrial attachment program (IAP) gained experience;
- The learner self-assessment sheet, which assesses his/her satisfaction with the industrial attachment program period;
- The industrial attachment program (IAP) participation interview form to guide the learner in preparing the interview.

If you need clarifications on how to use these documents, if a learner is facing any problems during the IAP, headteacher and supervisor are available to provide support. They are both responsible for preparing and following up the IAP implementation.

No	Specific competences	Activities to carry out
1.	Construct Bridge	1. Perform bridge preliminary works
		2. Construct substructure elements
		3. Construct superstructure elements
		4. Perform bridge finishing activities
2.	Construct Asphalt pavement	1. Perform preliminary works
		2. Check subgrade
		3. Construct subbase course
		4. Construct base course
		5. Construct wearing course
3.	Conduct Site Supervision of Public Works	1. Plan daily construction activities
		2. Follow up on construction works
		3. Close construction activities
4.	Apply AutoCAD Civil 3D software	1. Develop a concept
		2. Explore AutoCAD Civil 3D Interface
		3. Produce drawings
		4. Publish drawings
5.	Estimate Cost in Public Works	1. Estimate the construction work cost
		2. Monitor the project cost
		3. Value the construction work
6.	Construct Water spring supply and sewerage structures	1. Construct water tank
		2. Construct water spring collection system
		3. Construct sewerage system
7.	Perform Surveying data collection and setting out	1. Collect surveying data
		2. Interpret surveying data and set out
		3. Record as built data
8.	Perform steel bar works	1. Perform steel bars preliminary works
		2. Make steel frames
		3. Perform closing works
9.	Perform Aggregates' Tests	1. Perform sand equivalent test
		2. Perform flakiness index and elongation test
		3. Perform aggregate crushing value test
		4. Perform aggregates impact value test
		5. Perform Los Angeles test
		6. Perform coarse aggregate water absorption test.
10.	Perform Cement concrete works	1. Perform preliminary works
		2. Perform concrete mixing
		3. Perform concrete casting
		4. Perform post concreting works
11.	Perform Full soil identification and	1. Perform Sieve Analysis Test
		2. Perform Moisture Content Test

II. Information on competences

The following table is completed by the TVET school teacher to define the IAP program and specific practices to be performed by the learner as per curriculum.

Starting date _____ ending date _____

	insitu dry density test	3. Perform Specific Gravity Test
		4. Perform Atterberg Limits Test
		5. Perform Proctor Test
		6. Perform CBR Test
		7. Perform In Situ Dry Density Test (sand replacement)
12.	Perform Non bituminous pavement construction	1. Perform preliminary works
		2. Construct rigid pavement
		3. Construct cobblestone
13.	Perform Non-bituminous pavements maintenance	4. Perform site investigation
		5. Perform Demolition works
		6. Perform defects repair
14.	Perform cement tests	1. Perform standard consistency test of cement
		2. Perform setting time test
		3. Perform soundness test
		4. Perform cement compressive strength test
		5. Perform specific gravity test
		6. Perform Cement Bulk density test
15.	Perform Drainage system maintenance	1. Perform site investigation
		2. Maintain an open channel drainage.
		3. Maintain the subsurface drainage
16.	Perform Concrete tests	1. Perform slump test
		2. Perform compression test
		3. Perform Rebound hammer
17.	Apply Do-nou technology in earth road maintenance	1. Prepare the site
		2. Prepare the foundation layer
		3. Establish base layer with Do -nou bag
		4. Establish the wearing course
		5. Maintain Do-nou Road
18.	Apply Technical drawing	1. Produce views of public works structures
		2. Produce sections of public work structures
		3. Produce three dimensional drawings of public work structures

19.	Apply Basic Technical Drawing	1. Identify drawing materials, instruments and equipment
		2. Use drawing materials, instruments and equipment
		3. Interpret Lines and Symbols
		4. Apply drawing scales, dimensions and lettering
		5. Draw figures, solids and projections
20.	Public Works Hygiene and Safety Precautions	1. Maintain personal hygiene
		2. Identify construction public works hazards and emergencies at Workplace
		3. Maintain construction public works instruments
21.	Establish Road Signs, Marking and Crash Barriers	1. Apply road marking
		2. Install road signs
		3. Install crash barriers
		4. Clean up
22.	Construct unpaved Roads	1. Plan and prepare relevant works for unpaved road construction
		2. Prepare Subgrade
		3. Construct gravel wearing course
23.	Conduct field excavation works	1. Select materials, tools and equipment
		2. Prepare site for excavation
		3. Carry out excavation works
		4. Clean up construction workplace
24.	Construct drainage structures	1. Prepare for work
		2. Excavate trenches
		3. Construct drainage system structures
		4. Apply erosion control method and cleaning
25.	Perform masonry works	1. Set out structure
		2. construct stone masonry
		3. construct brick masonry
		4. lay pavers and pitches
26.	Describe Public Works Resources	1. Describe the construction materials used in public works
		2. Describe tools, equipment and facilities required for public works
		3. Identify team composition for public works
27.	Perform unpaved road Maintenance	1. Prepare for work.
		2. Perform routine maintenance
		3. Perform periodic maintenance
		4. Perform emergency maintenance
28.	Construct Retaining walls	1. Plan, and prepare the work requirements

		2. Prepare workplace
		3. Construct stone masonry retaining wall
		4. Construct Gabions
		5. Construct honeycombs retaining wall
		6. Construct a Reinforced concrete retaining wall.
29.	Set out Road Alignment	1. Prepare for work
		2. Set levels
		3. Delineate road profiles

TVET provider Signature and Stamp

III. Learner's attendance sheet



This attendance sheet is filled in every day by the learner and justified by company supervisor.

Starting date _____ ending date _____

Week 1	Time in	Time out	Learner Signature	Company Signature	DELAY		ABSENCE		Week 2	Time in	Time out	Learner Signature	Company Signature	DELAY		ABSENCE	
					Justified	Not justified	Justified	Not justified						Justified	Not justified	Justified	Not justified
Mo.									Mo.								
Tu.									Tu.								
Wed.									Wed.								
Th.									Th.								
Fr.									Fr.								
Sat.									Sat.								
Week 3	Time in	Time out	Learner Signature	Company Signature	DELAY		ABSENCE		Week 4	Time in	Time out	Learner Signature	Company Signature	DELAY		ABSENCE	
					Justified	Not justified	Justified	Not justified						Justified	Not justified	Justified	Not justified
Mo.									Mo.								
Tu.									Tu.								
Wed.									Wed.								

Th.									Th.								
Fr.									Fr.								
Sat.									Sat.								

IV. i. Weekly report sheet – Week 1



This weekly report sheet is to be filled every day by the learner, based on the IAP plan of activities and tasks assigned by his/her company supervisor. It is a tool for the learner to keep track on the work performed and the used resources.

It is a supporting tool for the teacher during the IAP final interview, to check the work performed and the tools used during IAP.

Date: From _____ to _____

Days	Tasks performed	Tools, materials, equipment and consumables	No. of hours per day
Monday	1. 2. 3.		
Tuesday	1. 2. 3.		

Wednesday	1. 2. 3.		
Thursday	1. 2. 3.		
Friday	1. 2. 3.		
Saturday	1. 2. 3.		

Signature of company supervisor

IV. ii. Weekly report sheet – Week 2

Date: From _____ to _____

Days	Tasks performed	Tools, materials, equipment and consumables	No. of hours per day
Monday	1. 2. 3.		
Tuesday	1. 2. 3.		
Wednesday	1. 2. 3.		

Thursday	1. 2. 3.		
Friday	1. 2. 3.		
Saturday	1. 2. 3.		

Signature of company supervisor

IV. iii. Weekly report sheet – Week 3

Date: From _____ to _____

Days	Tasks performed	Tools, materials, equipment and consumables	No. of hours per day
Monday	1. 2. 3.		
Tuesday	1. 2. 3.		
Wednesday	1. 2. 3.		

Thursday	1. 2. 3.		
Friday	1. 2. 3.		
Saturday	1. 2. 3.		

Signature of company supervisor

IV.iv. Weekly report sheet – Week 4

Date: From _____ to _____

Days	Tasks performed	Tools, materials, equipment and consumables	No. of hours per day
Monday	1. 2. 3.		
Tuesday	1. 2. 3.		
Wednesday	1. 2. 3.		

Thursday	1. 2. 3.		
Friday	1. 2. 3.		
Saturday	1. 2. 3.		

Signature of company supervisor

V. IAP school supervisor's visit form

1. General observation

Rank these elements related to the IAP implementation with a brief explanation by ticking to the number corresponding to the statement describing your observation as follows:

5 Excellent 4 Very Good 3 Good 2 Sufficient 1 Fair

NO	Observation during visit	Ranks					Comments
		1	2	3	4	5	
A. Company engagement							
a.	The schedule of IAP activities is established and communicated						
b.	The learner communicates with the company supervisor						
c.	IAP activities are recorded timely in liaison book.						
B. Learner engagement							
d.	Attendance is regularly recorded						
e.	Learner is engaged and have access to company's equipment and tools						
f.	Achievement of expected outcome						
g.	All performed activities are relevant to the IAP expected outcomes						
h.	Learner contributes to the overall outcomes of company production						
C. Working environment							
k.	Companies' rules and Regulations related to IAP are communicated						
l.	Emergencies/Special cases are handled effectively						
m.	Hazards are controlled						

2. Any other observation/recommendation during IAP visit

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3. Authorized person for follow-up/monitoring:

No	Name	Function	Date of Visit	Signature

VI. IAP company supervisor evaluation form

Read carefully the statements below relate to your experience with the learner, and make a decision by ranking his/her performance from “0 to 5”. This is how the number should support your rating:

5 Excellent 4 Very Good 3 Good 2 Sufficient 1 Fair 0 Poor

A. Technical competencies (30 points)

Job routines The learner operates job routines in accordance with the occupational norms (with supervision)	Points					
	0	1	2	3	4	5
The learner cleans the work station and stores tools/equipment after use						
He/she knows and applies the relevant procedures and techniques						
He/she knows and respects the different stages/steps of a working process						
Sub-Total 1out of 15					

Use of tools and equipment The learner adequately uses the materials, tools and equipment (with supervision)	Points					
	0	1	2	3	4	5
The learner adequately selects materials, tools and equipment						
He/she uses materials, tools and equipment without hesitation						
He/she maintains, tools and equipment						
Sub-Total 1out of 15					

B. Appropriate attitude at the workplace (60 points)

Individual attitudes The learner has developed the expected individual attitudes at the workplace	Points					
	0	1	2	3	4	5
The Learner is punctual						
He/she has a sense of responsibility and hard working						
He/she has shown some initiative						
He/she has shown the willingness to improve						
Sub-Total 1out of 20					

Interactive attitudes The learner has developed the required interactive attitudes at the workplace	Points					
	0	1	2	3	4	5
The learner is a team-worker						
He/she has good interpersonal communication skills						
He/she has acquired some self-confidence						
Sub-Total 1out of 15					

Organizational skills The learner has developed the required organizational attitudes	Points					
	0	1	2	3	4	5
The learner can work according to a schedule						
He/she can plan some tasks						
He/she uses resources efficiently (without waste)						
Sub-Total 1out of 15					

Rules and regulations The learner complies with the rules and regulations	Points					
	0	1	2	3	4	5
The learner complies with personal protective rules and regulation						
He/she respects hygiene, safety and security regulations at the workplace						
Sub-Total 1out of 10					

C. Quality of work (10 points)

Work relevancy	Points					
	0	1	2	3	4	5
The learner complies with orders from the clients or instructions from the supervisor						
The learner completes tasks with respect to the time allocated						
Sub-Totalout of 10					
Learner Overall Performanceout of 100					

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Company supervisor's comments (Observations and ideas on how to improve the TVET IAP)

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Done at _____, on _____
Name and stamp

VII. Learner self-assessment sheet

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Please answer the following questions honestly. This questionnaire is not part of the IAP module assessment. It will help improving the TVET IAP and training system.

Were your expectations met during the Industrial Attachment Program? ☐ All ☐ Some ☐ Very Few ☐ None at all

How did IAP help increase your knowledge, skills and attitudes as a learner? Please tick one or more statements.

- ☐ It sharpened my skills through consistent hands-on activities.
- ☐ It oriented me on the transition from school to work setting.
- ☐ The working environment inspired me to practice work ethics in my daily tasks.
- ☐ Others: _____

Did you encounter any of the following conditions at your workplace? Please tick the applicable items.

- ☐ Lack of safety measures.
- ☐ Poor communication and social relationship with work mates.
- ☐ Inadequate tools and equipment supply.
- ☐ Lack of supervision and support from others.
- ☐ Unclear job description;
- ☐ Tasks given were not related to my area of training.
- ☐ Lack of opportunities for professional growth.
- ☐ Failure to see dignity and value of work.
- ☐ Lack of work ethics (i.e. gossip, indiscretion, abuse of benefits, privileges, etc.)
- ☐ Lack of sense of morality among work mates
- ☐ Other conditions: _____

Did your teacher or headteacher monitor and address your Industrial Attachment Program-related concerns?

- ☐ Always ☐ Very rarely ☐ Sometimes ☐ Never

What are the situations you liked the most during your Industrial Attachment Program? Please tick one or more

- ☐ Applying my theoretical knowledge in practice
- ☐ Conducting similar tasks like a regular worker
- ☐ Forming camaraderie with my workmates and gaining learning experiences from them
- ☐ Others (please name them) _____

In general, rate your IAP experience and support your rating with a brief explanation.

5 Excellent 4 Very Good 3 Good 2 Sufficient 1 Fair 0 Poor

VII. Interview Guiding Questions

At the end of the Industrial Attachment Program, you will make a short presentation along the questions mentioned here below. You have to hand in the supporting document (the liaison book) to your teacher at least one day before the interview.

The interview takes place at the TVET Centre. The jury is composed of at least 2 teachers and the company supervisor.

Criterion 1: Technical competencies	Score					
	0	1	2	3	4	5
• Can you summarize the main activities of your Industrial Attachment Program?						
• What equipment did you use during this Industrial Attachment Program?						
• What activities planned in your Industrial Attachment Program you did not do? Why?						

Criterion 2: Attitudes	Score					
	0	1	2	3	4	5
• What difficulties/challenges did you face during your Industrial Attachment Program? How did you resolve them?						
• What attitudes do you think you improved during the Industrial Attachment Program?						
• What activities did you do well? What did you not do well? What do you still need to improve?						

Criterion 2: Quality of work	Score					
	0	1	2	3	4	5
• Among the tasks you realized, describe in detail one of them and how you completed it.						
• What was your clients/colleagues/supervisor feedback regarding your work?						
• During your Industrial Attachment Program, did you complete all the tasks you were given? If not, why?						

Criterion 1: Optional questions	Score					
	0	1	2	3	4	5
• What new activities did you do?						
• What did you find interesting during your IAP? And what is your career plan?						

Overall marks for the Industrial attachment program module

IAP Module		
Industrial attachment theory	Performance at workplace	Industrial attachment Report presentation
20% of overall marks for the IAP module	50% of overall marks for the IAP module	30% of overall marks for the IAP module
...../20/50/30
Total Score.....		

TVET industrial attachment Participation Certificate



TO WHOM IT MAY CONCERN

This is to certify that Mr./Ms. _____

a trainee from _____ has successfully completed

Industrial attachment program in (Trade) _____ RQF Level _____ at

From _____ to _____.

Name, Signature and Stamp

Company Authority

Name, Signature and Stamp

TVET Provider