



EXCAVATOR OPERATION MODULE VALIDATION

PIZO LODGE, KABWE, ZAMBIA.
19 to 26 June 2023



HITACHI
Reliable solutions



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1. Acronyms

EIZ: Engineering Institute of Zambia

KVTC: Kitwe Vocational Training Centre

OSHE: Occupational Safety, Health and Environment

TEVETA: Technical Education, Vocational and Entrepreneurship Training Authority

2. Introduction

The module validation workshop served as a continuation of the module development workshop. This workshop was facilitated by Technical Education, Vocational and Entrepreneurship Training Authority (TEVETA) and is related to project activity 2.2. The main objective of the workshop was to validate the teaching and learning materials for both trainers and beneficiaries (students) developed in the previous workshop.

The workshop took place at Pizo Lodge in Kabwe, June 19th to June 26th, 2023. Mr. Kalikeka, an expert in learning materials development, served as the workshop facilitator.

3. Participants

The module validation workshop drew participation from Engineering Institute of Zambia (EIZ), Mopani Central Training Centre (MCTC), Hitachi Machinery Construction Zambia, Kitwe Vocational Training Centre, and TEVETA. The details of the participants are as outlined in the table below.

S/N	Name	Organisation	Position
1	Mr. Ackim Kalikeka	TEVETA	Specialist in Learning Materials Development
2	Mr. Bindabinda Evans	TEVETA	Training System Development Specialist
3	Mr. Clay Chimbali	Mopani Central Training Centre	Senior trainer in mobile equipment
4	Mr. Sydney Matamwandi	EIZ	Former Manager
5	Ms. Kalenda Nankonde	KVTC	Project Staff
6	Mr. Jonathan Lemisa	Hitachi Machinery Construction Zambia	Assistant Manager, Training and Human Capital

4. The purpose of the workshop

- To review the excavator operation modules
- To validate of the Excavator Operation Module

5. Workshop Proceedings

During the orientation session, Mr. Kalikeka, the facilitator, emphasized that the primary focus of the workshop was to validate the excavator operator modules. He stressed the importance of ensuring the validity of the information included in the modules and identifying any necessary changes. Participants were guided on how to validate the information and were instructed to thoroughly scrutinize the modules for errors or omissions. They were encouraged to note any errors in the provided table and provide suggestions for corrections.

The facilitator highlighted the significance of aligning content with headings and paying attention to typographical errors, scope, and unit consistency. The participants were urged to suggest ways to improve the organization and coherence of the topics. Mr. Kalikeka emphasized the importance of using language that can be understood by learners and avoiding technical jargon. Participants were encouraged to

thoroughly read and understand the information, use proper grammar, and incorporate visual aids to enhance comprehension.

The facilitator emphasized the importance of considering the learner's perspective during the validation process. Participants were encouraged to use language that a layperson could easily understand, avoiding technical terms that might confuse novices. Grammar and clarity were also highlighted as crucial aspects, with the materials intended to guide and teach students rather than fellow experts.

Participants were urged to read and comprehend the module content thoroughly, rather than simply scanning through it. Strategies such as paying attention to punctuation, using concise sentences, and incorporating non-text elements like visuals were recommended to enhance understanding. This approach aimed to engage both visual and textual learners effectively.

The review process was divided into two sub-groups, each assigned specific units from the Occupational Safety, Health, and Environment module. Using a Review template, teams recorded their observations and findings on the draft module. They were encouraged to periodically share their findings through presentations with the rest of the participants.

After completing the review and presenting their findings, the teams proceeded with the validation process for their assigned units. The validation involved making changes to the draft module based on the review outcomes. This included addressing missing content for better coherence, correcting inaccuracies, fixing typographical errors, incorporating art briefs, and ensuring appropriate content numbering.

Each validated unit was submitted to the facilitator for further review and compilation. The finalized Occupational Safety, Health, and Environment Module consisted of all the validated units. The same review and validation approach was applied to the Excavator Operations and Excavator Inspections modules.

The facilitation team regularly checked on the progress of each group's review, and the teams' provided updates on their findings. Throughout the validation process, the facilitator provided continuous technical guidance to ensure a successful outcome

6. Challenges

The workshop proceeded according to plan with few minor challenges. However, it faced initial difficulties due to a lower-than-expected turnout of subject matter experts. Out of the intended six experts, only four attended the workshop. One institution did not respond to the invitation, and another expert withdrew. This resulted in additional workload for the attending experts within the given timeframe, affecting the validation process. Despite these challenges, the workshop continued with the available participants.

7. Recommendations

To ensure smoother workshop operations, it is crucial to engage stakeholders consistently and establish a feedback mechanism. This will allow for timely replacements in case of non-response or withdrawals from invited participants. Additionally, considering the invitation of extra experts can help mitigate the potential disruption caused by last-minute withdrawals, ensuring a more sufficient turnout for the

workshop. By implementing these measures, the workshop can be better prepared to handle unforeseen circumstances and maintain an optimal level of participant engagement.

8. Conclusions

The participants appreciated the skills that had learnt in module validation. Especially with the use of the scope template because it made work easier. The non experts also benefited in learning about how an excavator operates and the various sectors it is used in. The use of the table was also very effective especially with adding suggestions in the table, it made work easier to effect the changes.

9. Photo Focus



Photo focus of the workshop proceedings

