Professional learning of vocational teachers in the context of work placement
Zhou, N.

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Appendices
## Appendix A. Studies coded by learning activities and outcomes (Chapter2)

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43. Verberg et al. (2013) + + + + + +
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Appendix B: Questionnaire (Chapter 3)

Dear participants,

The aim of work placement is keeping up-to-date with your vocational knowledge and skills. In order to improve the effectiveness of work placement and study how vocational teachers’ can be supported in work placement, ICLON Leiden University and CDIBB Tongji University are conducting a research project.

This questionnaire is part of the research project, which asks your perceptions of motivation and engagement toward work placement. It is expected that the questionnaire will take 10-15 minutes to complete. Your input is very valuable to us as a research team and can contribute to future work placement of vocational teachers.

Your participation in this research is voluntary and you may also withdraw consent at any time. The information provided will be used solely for the purpose of this research project. The results of the questionnaire will be treated confidential and results will always be made anonymous when reported. The data will be kept securely in Leiden University. If you have any questions or suggestions, feel free to send e-mail to this address: n.zhou@iclon.leidenuniv.nl.

1. Are you female or male? (     )
   A. Female            B. Male

2. How old are you? ______

3. What is the highest level of formal education you have completed? (     )
   A. Diploma of secondary vocational school     B. Senior college degree
   C. Bachelor                 D. Master               E. Doctorate

4. How many years of teaching experience do you have? ______

5. How many years of occupational experience do you have before becoming a teacher? ______

6. What subject do you teach? ______

7. When was the last time you attended work placement? ______

8. How many days do you plan to do work placement in the next year? ______
This part is your perception of task value and self-efficacy for work placement. Please indicate below in what extent you think it’s applicable with the following items: from 1 (It’s not applicable to me at all) to 7 (It’s completely applicable to me).

1. Doing well in work placement will be important for my future career.
2. What I learn in work placement helps me in my teaching.
3. Having experience of work placement is valuable because it will help me in my future career.
4. I’m certain I can master the skills being presented in work placement.
5. The things I learn in work placement are practical for me to know.
6. I like work placement.
7. It is important to me to be someone who does well in work placement.
8. I believe I will learn a lot in work placement.
9. What I learn in work placement is so important for me.
10. What I am learning in work placement is exciting to me.
11. To succeed as a vocational teacher, work placement is necessary.
12. Doing well in work placement is an important part of who I am.
13. What I am studying in work placement fascinates me.
14. Experience with work placement will be useful for me later in life.
15. I enjoy what I am learning in work placement.
16. I’m confident I can do an excellent job in work placement.
17. I’m certain I can understand the most work content presented in work placement.
18. It is important to me to be a person who have experience of work placement.
19. I enjoy work placement.
20. Having experience of work placement is an important part of who I am.
21. Being someone who does well in work placement is important to me.
22. I think I will do well in work placement.

This part is your perception of cost for work placement. Please indicate below in what extent you think it’s applicable with the following items: from 1 (It’s not applicable to me at all) to 7 (It’s completely applicable to me). (* means the items after EFA were remained for further analysis)

1. I have to sacrifice much to be in work placement.
*2. Work placement is exhausting.
3. Work placement is much work.
4. Work placement demands much of my time.
5. I can’t spend as much time doing the other things that I would like because I am doing work placement.
6. Work placement requires much effort.
7. Work placement is stressful.
8. Work placement requires me to give up many other activities I value.
10. Doing work placement causes me to miss out on many other things I care about.
11. I have to put much energy into work placement.
12. Work placement is frustrating.
13. I worry much about work placement.

*This part is your perception of engagement for work placement. Please indicate below in what extent you think it’s applicable with the following items: from 1 (It’s not applicable to me at all) to 7 (It’s completely applicable to me).*

1. During work placement, I express my opinions.
2. During work placement, I ask questions.
3. In work placement, I try to make all the different ideas fit together and make sense of these.
4. In work placement, I participate in all discussions.
5. I try hard to do well in enterprise.
6. In work placement, I feel curious about what we are learning.
7. I pay attention in work placement.
8. In work placement, I try to relate what I’m learning to what I already know.
9. I show what I like or what I don’t like during work placement.
10. I offer suggestions about how to make the work placement better.
11. Work placement is fun.
12. I tell my mentor what I am interested in.
13. When I work on something in work placement, I feel interested.
14. In work placement, I work as hard as I can.
15. In work placement, I listen to my mentor very carefully.
16. I enjoy learning new things in work placement.
17. In work placement, I try to connect what I am learning with my teaching experiences.
*18. In work placement, I make up my own examples to help me understand the important concepts I study.
Appendix C: Interview outline (Chapter 4)

Introduction

Thank you for participating in this interview today. I’m Na Zhou, the principal investigator of this study. It’s a pity that we have to conduct this interview online instead of face to face because of the COVID-19 situation. I hope you won’t feel any uncomfortable. As introduced before in email/WeChat, this study focuses on vocational teachers’ learning process with work placement. In this interview, I would like to know your learning experience with work placement which was just completed one week ago. This interview will last around 45 minutes. The information you provide in our interview will be treated confidential and results will be made anonymous when reported. Our talks in this interview will not affect the assessment of your performance in work placement and you are free to withdraw at any time without giving any reason and without any negative consequences. Please feel free to share your opinions and experiences as there are no correct or wrong answers.

Now, I’m going to ask your permission to record our conversation. This recording will only be used for research, and if you want to stop recording during our talk for any reason, we can pause it at any time.

Interview Questions

Firstly, I would like to know some background information about you.

1) What subject do you teach?

2) How long have you been teaching?

3) Do you have occupational experience before becoming a teacher?

4) How many times have you attended work placement?

5) How many days do you undertake this work placement?

Secondly, could you please talk a little about your learning experience with work placement which was just ended? For example, what did you do and what was your role? Did you attend particular learning activities? Do you still remember your first impression when you arrived at the workplace?
Thanks for your sharing, based on your experience, now I want to ask you some detailed questions.

*Learning activities in work placement*

1) Could you choose a typical day and describe what you did on that day?

2) Could you talk about what ways you used to learn in work placement?

3) What ways do you think are important to you and why?

*Perceived learning goals and outcomes*

1) What did you aim to learn before participation in work placement?

2) What have you learned from work placement?

3) In these what you have learned, which do you think is important to you?

4) How do you think this learning experience will influence your teaching practice?

*Concluding remarks*

Now, that’s all my questions. Before we conclude this interview, is there something about work placement you want to share, which was not mentioned yet?

Thank you very much for your sharing. I will summarise the recording and send the text to you by email to check whether this is complete and correct. This interview will only be used for the research, will not influence your assessment in work placement and won’t be shared with others except my research team members.
Appendices

Appendix D: Interview outline (Chapter 5)

Introduction

Thank you for participating in this interview today. I’m Na Zhou, the principal investigator of this study. It’s a pity that we have to conduct this interview online instead of face to face because of the COVID-19 situation. I hope you won’t feel too uncomfortable. It has been around half a year since the last interview, in which we talked about your experience with your latest work placement. This time, we would like to know your perceptions of possible changes in your practice during the past semester. The interview will last around 45 minutes. The information you provide in our interview will be treated confidential and results will be made anonymous when reported. Our talks in this interview will not affect the assessment of your performance in work placement and you are free to withdraw at any time without giving any reason and without any negative consequences. Please feel free to share your opinions and experiences as there are no correct or wrong answers.

Now, I’m going to ask your permission to record our conversation. This recording will only be used for research, and if you want to stop recording during our talk for any reason, we can pause it at any time.

Interview Questions

(1) Could you reflect on what you did during work placement last time and summarise what you remember of it?

(2) Could you please introduce a little about your teaching subjects in this semester? For example, teaching goals, teaching content, and teaching environment.

(3) Could you talk a little about your students? Such as their grades, learning characteristics, future career.

Changes in behaviors

(1) Do you think your last experience with work placement was useful for your teaching in this semester?

If response: yes

1) Could you elaborate a little why you think it was useful? Also, were there any
changes in your teaching practice due to this work placement? How do you apply what you have learned from work placement to your teaching practice in this semester?

Probes: Probes are from the ‘intentions for practice’ of the interviews in Chapter 4. For example: You mentioned you would like to do xxx in the last interview, did you do that in this semester?

2) Why do you perform these changes?

3) Apart from your teaching practice, is there any other change?

4) Based on these changes, which changes do you think important?

If response: no

1) Why do you think it not useful?

Factors influencing making changes

From your sharing, it appears that you have changed a lot/little in your teaching practice after work placement. What factors do you think facilitating or hindering your changing or applying?

Suggestion

For the future work placement, what suggestions do you have?

Concluding remarks

Now, that’s all my questions. Before we conclude this interview, is there something about work placement you want to share, which was not mentioned yet?

Thank you very much for your sharing. I will summarise the recording and send the text to you by email to check whether this is complete and correct. This interview will only be used for the research, will not influence your assessment in work placement and won’t be shared with others except my research team members.
Appendix E: Questionnaire (Chapter 6)

Dear participants,

The aim of work placement is keeping up-to-date with your vocational knowledge and skills. In order to improve the effectiveness of work placement, ICLON Leiden University and CDIBB Tongji University are conducting a research project.

This questionnaire is part of the research project. The questions are focused on your experiences with using what you have learnt in work placement in your school practice. It is expected that the questionnaire will take 10-15 minutes to complete. Your input is very valuable to us as a research team and can contribute to future work placement of vocational teachers.

Your participation in this research is voluntary and you may also withdraw consent at any time. The information provided will be used solely for the purpose of this research project. The results from the questionnaire will be processed anonymously and results will always be made anonymous when reported. The data will be kept securely in Leiden University. If you have any questions or suggestions, feel free to send e-mail to this address: n.zhou@iclon.leidenuniv.nl.

1. Are you female or male? (     )
   A. Female            B. Male
2. How old are you? ______
3. What is the highest level of formal education you have completed? (     )
   A. Diploma of secondary vocational school     B. Senior college degree
   C. Bachelor                 D. Master               E. Doctorate
4. How many years of teaching experience do you have? ______
5. How many years of occupational experience do you have before becoming a teacher? ______
6. What subject do you teach? ______
7. When was the last time you attended work placement? ______
8. How many days did you attend for the last time? ______

In this section we ask you to indicate what you have learnt in the latest work placement and how you use what you have learnt in your school practice. With regards to what did you learn in your latest work placement? Please provide some
examples in your own words.

Below, for each statement, please select the answer that best fits your experience with using what you have learnt in work placement in your school practice by using the following scale 1 (It’s not applicable to me at all) to 5 (It’s very applicable to me).

1. I adapted my teaching content based on what I learned in this work placement.
2. I will keep using the adapted teaching content in my teaching.
3. I used some resources (cases, videos, guidebooks, etc.) got from this work placement in my class.
4. I will keep using these resources in my class.
5. I provided career information to students in my classes based on this work placement.
6. I will keep providing career information to students in my classes based on this work placement.
7. I organised activities aimed at developing my students' occupational competences based on this work placement.
8. I will keep organising these activities.
9. I shared my experience of this work placement to support my colleagues in school.
10. I will keep sharing my experience of this work placement with my colleagues.
11. I used my experience with this work placement to contribute to school development, such as developing new curricula and strengthening school-company cooperation.
12. I will keep using my experience of this work placement to contribute to school development.

In this section, we ask you which factors influence you to keep using in your school practice what you have learnt in your latest work placement. Please indicate below to what extent you agree with the following items: 1 (Strongly disagree) to 5 (Strongly agree).

1. My school supervisor meets with me regularly to work on problems I may be having in trying to use in school what I learnt from this work placement.
2. My school supervisor meets with me to discuss ways to apply this work placement
in school.
3. My school supervisor helps me set realistic goals for my performance as a teacher based on this work placement.
4. My colleagues at school appreciate my using what I learned in this work placement.
5. My colleagues at school encourage me to use what I have learned in this work placement.
6. In my school, my colleagues expect me to use what I learned in this work placement.
7. I'm allowed to try out what I learned from this work placement in my school.
8. The resources needed to use what I learned in this work placement are available in my school.
9. I get opportunities to use what I learned in this work placement in my school.
10. The equipment, materials, tools, etc. used in work placement are very similar to those I use in my school.
11. What I have learned in this work placement is very similar to what I teach.
12. I like the way this work placement seems so much related to my school work.
13. I don’t have enough time to try to use this work placement in my school.
14. Trying to use this work placement takes much energy away from my other school work.
15. There is too much happening at school for me to try to use this work placement.
16. I never doubt my ability to keep using what I transferred from this work placement in my school.
17. I am sure I can overcome obstacles in my work as a teacher that hinder me to keep what I transferred from this work placement.
18. In my teaching, I feel very confident in keeping what I transferred from this work placement in the face of difficult or taxing situations.
19. I found my job performance as a teacher improved because of my transfer from this work placement to my school.
20. When I transferred from this work placement to my school, my students, colleagues, or supervisors always showed their interest.
21. My transfer from this work placement to my school always produced good results.
22. I feel that I’m closer to being a ‘dual-qualified teacher’ because of my transfer from this work placement to my school.
Curriculum Vitae

Na Zhou was born on 25th January 1994, in Qingdao (China). After graduating from upper secondary education at Jiaonan No. 1 Middle School in 2012, she studied Management at East China University of Science and Technology (Shanghai, China) and obtained her bachelors’ degree in 2016. Subsequently, she completed a Master degree of Management in 2019 at Tongji University (Shanghai, China). In 2019 August, Na started her PhD research at ICLON—Leiden University Graduate School of Teaching, the Netherlands. In her PhD research, Na focused on Chinese vocational teachers’ professional learning in the context of work placement. At the same time, she worked as a research assistant in the Institute of Vocational and Technical Education at Tongji University.

During her PhD programme, Na attended courses in her research topic provided by the Dutch Interuniversity Centre for Educational Research (ICO). She published four chapters of the dissertation (Chapter2 to Chapter5). Chapter 6 has also been submitted for publication. She has presented her research during the following conferences: ICO International Spring School 2021, the annual meeting of the American Educational Research Association (AERA) 2022, European Conference on Educational Research (ECER) 2022.
Publications

**Scientific Publications**


**Manuscripts Submitted for Publication**


**Presentations**


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