Abstract

Career development gains new meaning in the context of employability demands in a knowledge economy. In this context, increased mobility, a dynamic work environment and an increased level of career support from employers, are seen as characteristics of a modern career. All of these characteristics put emphasis on individual responsibility and self-management in career development. This article presents the results of an empirical study which addressed the general question as to which competencies employees need to possess in order to realize self-management in their development of a modern career. In a survey of 1,579 employees (51% response) in sixteen Dutch companies, six career factors/competencies of career-self-management proved to be relevant for career development: career development-ability, reflection on capacities, reflection on motives, work exploration, career control and networking. Among the explanatory variables that were considered, mobility perspective and career support at work and private life appeared to be associated most strongly (statistical significance at 0.01) with career competencies.

Keywords: career development, career competencies, competency measurement, modern career characteristics
Introduction

Background

The modern career is a topic of interest to both employees and employers. Although interest in career development began in the early 20th century, it has only been in the last two decades that career development has become a serious issue of concern within organizations (Burke, 1995). Economic and technological developments can result in working careers being unpredictable due to changing work opportunities and shifts in labor. A permanent job with one employer, preferably for the entire span of a person’s working life, is considered the traditional work pattern (Iellatchitch, Mayrhofer & Meyer, 2003). However, the traditional job, as a collection of set duties and responsibilities, does not appear flexible enough to make functioning in an unstable job market possible (Meijers & Wardekker, 2003). Today career opportunities are seen more in the light of employability, in which career development goes beyond the boundaries of organizations; the so-called “boundaryless careers” (Arthur, 1994). The traditional career, chiefly determined by an employee’s preliminary training and investments by employers, has shifted towards a ‘modern career’ largely guided by the employee.

In literature on career development, authors such as Arthur, Inkson and Pringle (1999), and Hall and Mirvis (1995) described characteristics of the modern career that appeal to self-management in career development. These characteristics include:

- Increased mobility; careers develop in vertical as well as in horizontal directions and career development takes place outside the boundaries of one organization.
- Increased dynamics in the work environment; work tasks of employees change more often.
- Change of responsibility of the employer from providing ‘career ladders’, with fixed career
  moves determined by the employer, to facilitating employees to develop their own career.

Although recent literature on careers creates the impression that these characteristics are
generally accepted, little is known about the impact of labor market changes on the requirements
of career self-management. Moreover, there is considerable uncertainty concerning the question
which competencies workers need to possess to realize self-management in their career
development.

The fact that (Inter)national politics, education and labor organizations focus on employability
makes it essential to study career self-management. Authors in the field of career development
plead for research studies with practical relevance that go beyond the traditional focus of career
development (Iellatchitch et.al., 2003; Savickas, 2003). A reliable and valid categorization and
instrument that measures career competencies can serve policymakers, educators, and human
resource managers in organizations as well as career counselors. This article describes a study on
the operationalization of career competencies and the relation of these competencies with the
characteristics of a modern career: increased mobility, a dynamic work-environment, and career
support at work.

*Purpose and rationale of the study*

Against the societal background described in the above and the relatively undeveloped state of
the art in the operationalization of career competencies relevant for the modern career two
research questions were addressed:
Which competencies regarding career development can be identified and operationalized in an instrument?

Which characteristics of the modern career explain the use of career competencies, over and above personal characteristics?¹

Although the study was of an exploratory nature we expected a positive association between the characteristics of the modern career and career development competencies. Due to the ex-post nature of the research design and the correlational nature of the analyses that were carried out, the interpretation of positive associations does not allow going beyond establishing mutual enforcement between career characteristics and career development competencies.

The conceptual background to each of the two central research questions is elaborated in the subsequent sub-sections.

Measuring Career Competencies

Career competencies in this study are defined as competencies that are relevant for all employees to develop their own career, regardless of the specific job they have. On the basis of a review of the literature on career development and interviews with experts, four career competencies were identified:

- Career reflection: the competency to reflect upon personal capacities and motives regarding a career (e.g. Hall & Mirvis, 1995; Murphy, 2001);

- Work exploration: the competency to explore the labor market and specific work environment for suitable work (activities) and mobility prospects (e.g. Ball, 1997);

¹ Note: this research question was posed to pursue substantive interest in the explanation of career competencies, and, at the same time was seen as bearing on the predictive validity of the newly developed instrument.
• Career control: the competency to plan and act upon one’s own learning and working processes (e.g. Nabi, 2000);

• Self-presentation: the competency to show and discuss one’s capacities and values regarding work thereby increasing ones choices in career development (e.g. Arthur 1994).

The focus on these career competencies can be corroborated by exploring their relationship with characteristics of the modern career.

The Impact of Characteristics of the Modern Career on Career Competencies

To understand the construct of competencies it is important to explore relationships with relevant explanatory variables. The extent to which people develop career competencies could be seen as depending on personal variables such as character, gender, age, position, and ambition. However, for Human Resource Development purposes it is even more relevant to understand the relationship of career competencies with work related variables, because these variables can be controlled and influenced. In the literature on career management it is assumed that environmental factors of the modern career, such as increased mobility, increased dynamics in the work situation and changes in support in the work-situation, urge employees to take responsibility for their own career development. Because of the increased interest on the influence of the employees’ private life on their career development (Ball, 1997; Defillippi & Arthur, 1994), the career support from the private-situation was included in the study as well. In the design of the study the impact of controllable characteristics of the modern career on career competencies has to be separated form the impact of relevant personal variables. Personal factors investigated are gender, age, job position and career ambition. Work related characteristics of the
modern career studied are mobility perspective, dynamic work-environment and level of to
career support by employers in the work-environment. Each of these three phenomena will be
described in more detail below.

*Mobility perspective* includes mobility opportunity on the labor market and mobility intentions
for the coming year. Various authors point to the increase of mobility within career paths
(Arthur, 1994; Hall & Mirvis, 1995) and describe its relevance for employability (Allegro, 1998)
and career development (Boudreaux, 2001). From these references we inferred that quantity of
work opportunities, related to educational level and work experiences, as well as possibilities on
the labor market to realize mobility wishes, were relevant categories to include in our study.
Mobility intentions were operationalized as intentions of the employees within or outside their
organization in the coming year.

*A dynamic work-environment* refers to the frequency of work changes that the employee
experiences. A distinction was made between change in work-tasks at the current workplace and
change in the work-history. The work-history refers to the change of work within and outside
organizational boundaries over the last five years. With increased mobility, an increase in the
dynamics of the work-environments is expected in a modern career (Allegro, 1998). A more
dynamic work-environment is expected to appeal to the career development of the employees to
development will not be as attractive and necessary in organization where changes of work-tasks
are not relevant.

*Career support in the work-environment* refers to the facilities an organization offers to obtain
new work experiences, to undertake learning activities and to develop a network for career
development purposes. Within the ideas of the modern career the employer is expected to promote the future perspectives and employability of the employee (Kakabadse & Kakabadse, 2000). To be attractive for employees, the organization should offer opportunities to obtain learning experiences, work experiences and network-contacts (van der Heijden, 1998). Moreover, employees who experience more career support prove to be more motivated to undertake activities in this matters (Nabi, 2000).

As an additional variable we considered career support in the private situation. A distinction was made between experienced moral support and support to invest time and money for career development purposes. Little research has been conducted on the influence of career support from the private-situation on career development. Studies in this area focused merely on the influence of relatives on students’ career-choices (Arbona, 2000). In the literature of modern careers, the importance of balancing work and private life is emphasized (Defillippi & Arthur, 1994).

Method

By means of literature review and interview studies, career competencies were defined. A measurement instrument was developed, tested and validated. Subsequently, a large-scale survey was carried out to empirically investigate the construct career competencies and the relation between career competencies and characteristics of the modern career. The instrument, a self-assessment questionnaire, was distributed among 3.086 employees in sixteen Dutch companies. Employees were randomly chosen from the organizations’ target groups.
Selection of organizations

Organizations, participating in this study, were selected based on the extent of the presence of the work-related variables: mobility opportunities, dynamic work-environment and career support from the work-environment. To promote variability within the response-group, organizations were included in which these variables were present as well as organization in which these variables were largely absent. Organizations were classified based on criteria to determine the extent of attendance of these variables (Table 1). The matrix consists of eight cells in which the three work-related variables in all possible combination of presence and absence were represented (Table 1).

Table 1

In one case, it was not possible to allocate the organization to one of the extremes in presence of a dynamic work-environment; according to the outcome of the criteria-list, this organization had a moderate dynamic work-environment. Because no other organization was available, it was decided to include this organization. The acquisition of the participating organization was performed randomly and was terminated when the eight-cells-matrix was completed.

Respondent group

The target population was defined as employees in Dutch companies with a minimum educational level of Higher Vocational Education, having at least one year’s work experience and a minimum of 20 working hours a week. Of the 3,086 questionnaires, 1,591 (51 %) were returned completed. This realized sample of 1,591 respondents consisted of 68% males and 32% females. In the Netherlands the ratio of men to women having successfully completed higher education is 60:40 (Central Statistics Agency, 2000). The realized sample roughly corresponds to
this ratio. The average age of respondents was 40 with a standard deviation of 9.9. Of the total respondent group 23% was 30 years old or younger, 44% was between 30 and 45 and 33% were over 45 years of age. Half the respondent group consisted of operational staff while the other half held an executive position. Among 125 employees who failed to return the questionnaire, non-response interviews were held to verify the correspondence between the non response and the response group on the variables gender, age, position, mobility perspective and career support from the work situation. The employees from the non-response group were selected at random. The results revealed no significant differences between the non-responding and the responding subjects. From this we may conclude that the non-response was not selective and that this threat to the generalizability of the results could be ruled out.

*The instrument to measure career competencies*

The instrument used for collecting data on career competencies was a written self-assessment questionnaire. The development of the questionnaire took place in various phases:

1. Literature study on career research to see if any questionnaire was available from previous studies. No appropriate questionnaire was found for the current study.

2. Interviews with nine specialists in the field of career development in the Netherlands were held to identify indicators of career competencies.

3. Construction of a self-assessment questionnaire based on the aspects of career competencies that were generated in the interviews with specialists. Next, the initial version of the questionnaire was adjusted on the basis of interviews with employees from the target group, researchers, language experts and methodologists. In this way it was verified that the items
were clearly formulated, sufficiently covered the earlier identified indicators (see step 2 above) and sufficiently distinct from one another.

4. Assessment of the face validity of the content of the questionnaire was performed by nine specialists; four of them had also been involved in step 2, described above, and five of them became involved for the first time. The overall result of this round of expert consultation was that the questionnaire was seen as a valid measure of career competencies.

5. Next, the instrument was tested by means of a pilot study among 197 respondents (42% response). The pilot results were used to construct scales of items that represented career competencies. Reliability of the scales (Cronbach’s alpha’s .74 to .80 in the pilot study and Cronbach’s alpha’s .74 to .88 in the main survey) and discrimination between the competencies proved to meet conventional standards.

6. Fourteen interviews with respondents of the pilot study were held to explore whether questionnaire responses and statements in interviews from the same respondents matched. This approach could be seen as an exploration of the convergent validity of the measurement instrument. The results on career competencies measured by the questionnaire corresponded with the result measured by means of an interview, with the exception of one case.

7. Correlational study was performed using the existing construct ‘locus of control’ (a personality characteristic) to determine the discriminant validity. Although a relation between internal locus of control and career development is expected to some extent—a person who attributes his success and failure to his own activities, is more likely to act on his career development— it is not desirable that the career-development-questionnaire in essence measures the internal locus of control of a person. Therefore, the correlation between the results of the questionnaire on career competencies and the results of a questionnaire on locus
of control should be present but limited in size. The results did confirm to this requirement; the correlation was significant but low (.18 to .22). This finding supports the discriminant validity of the career competencies questionnaire.

In the questionnaire the construct career competencies was expounded in two different structures (Table 1). Based on theory and qualitative studies each career competency was expected to consist of several content parts that are likely to function as a unity. For example career reflection is composed of reflection on capacities and reflection of motives. Based on theoretical allocated characteristics of competencies defined a unity of dispositions for performance and actual behavior (Nordhaug, 1993; Parry, 1998; Spencer & Spencer, 1993) and including motivation as an element of competencies (Bunk, 1994), career competencies were also included in a second structure which represented modalities. A distinction was made between questions that measured ability, behavior and motivation.

Table 2.

Questions and statements relating to the applicability of characteristics of the modern career on the respondents situation were included in the questionnaire. Moreover, the variables mobility opportunities, dynamics of the current work-environment and career support from the workplace were assessed by the employer of the participating organizations. The questions and statements were based on five-point scales, ranging from ‘totally disagree’ to ‘totally agree’, or from ‘(almost) never’ to ‘every month or even more’.

Analyses

By means of a confirmatory factor analysis (LISREL 8) the structure of career competencies, as designed according to the opinions in the literature and from experts, was analyzed. The purpose
of a factor analysis is to explain the relation between observed variables (questions in the questionnaire) by underlying latent variables (in this case career competencies). By means of a confirmatory factor analyses a model is tested that was developed beforehand. Several goodness-of-fit measures generated by LISREL evaluate how well the hypothesized model (Table 2) fits the observed data. The fit criteria ‘Akaike’s Information Criterion’ (AIC), a modification of this criterion CAIC and the ‘Adjusted Goodness-of-Fit Index’ (AGFI) are used to compare the one and more-factor-models. The general rule is that a model with a low AIC or CAIC is preferred above a model with a higher index. The recommended AGFI of a model that fits the data well is at least 0.8 (Chau, 1997). If the modalities and content aspect of a competency (Table 1) function as a unity (like the hypothesis about the structure of a competency predicts), a one-factor-model gives the best-fit index. If, for a particular competency, a more-factor-model gives the best fit-index the construct of four career competencies needs reconsideration, because the total set of competencies will exceed the four a priori competencies. In order to investigate whether career competencies are explained by characteristics of the modern career, regression-analyses were carried out in which personal variables were controlled for.

Results

The results of the LISREL-analysis showed that a distinction needs to be made between the ‘ability component’ and the ‘behavior component’ of a competency. Although definitions of a competency often include the terms ‘ability’, ‘behavior’ and ‘motivation’, no empirical evidence is found in this study to support the unity of these modalities. The results of the LISREL-analysis indicated that the modalities ability and behavior on career development cannot be seen as a unity. A career competency needs to be defined in term of ability or behavior. Motivation is
more strongly related to behavior than it is to ability and is therefore combined with behavior. Next, the unity of content aspects of the competencies was investigated. The results showed that even the content aspects cannot be considered as a unity, although the content aspects of ability are more related to each other than the content aspects of behavior/motivation. Comparing the results of the LISREL-analyses and of possible classifications (Table 2), we found that career development involves twelve factors in stead of four competencies: *ability* regarding career reflection (1), work exploration (2), carrier planning/control of learning process (3), verbal career promotion (4), networking (5), and *behavior/motivation* regarding reflection on capacities (6), reflection on motives (7), orientation on work (8), career planning /control of work process (9), control of learning process (10), verbal career promotion (11) and networking (12). Presenting in work (9 in Table 2) and behavior/motivation on orientation on work (4 in Table 2) are excluded from the model. Balancing work and private life (7b in Table 2) proved to be a separate factor that is no part of career development (factor loadings on career development: < .35 vs. factor loadings of remaining factors: .6 to .9). The twelve factors could be reduced to a more economical model of six factors, that still met the standard of an AGFI-index of 80 (cf. Chau, 1997; for further details see Kuijpers, 2003).

The correlation coefficients among the content aspects of career-development-ability differ between .63 to .81. In contrast to conclusions on ability content aspects, it is undesirable to combine all behavior/motivation content aspects. Based on the correlation matrix, only the behavior/motivation content aspects ‘career planning/control of work process’, ‘control of learning process’ and ‘verbal career promotion’ are combined into one factor: career control (correlations between .64 to .83). By combining the content aspects the theoretical model of career development consisting of twelve factors is reduced to a practical model of six factors:
• Career development-ability (the degree to which employees are capable of realizing personal goals and values in their working career);
• career development behavior/motivation on reflection on capacities (considering capacities an work competencies already present that are important for a career);
• career development behavior/motivation on reflection on motives (considering desires and values that are important for one’s own individual career);
• career development behavior/motivation on work exploration (looking at work and mobility with regard to career. Central to this is the process of familiarizing oneself with the ways in which work competencies can be deployed);
• career development behavior/motivation on career control (career-directed planning and influencing of learning and work processes. Also planning and negotiating the development and the deployment of work competencies for one’s own career);
• career development behavior/motivation on networking (building up contacts and maintaining them on the internal and external job market, aimed at career development).

The model that consists of these six factors defines the construct of career development. Based on the six factors the relation between career development and career success is analyzed.

Variables of the modern career

This section presents the results of the regression-analyses used to analyze the contribution of modern career variables to career competencies when controlling for relevant personal variables. The personal variables that were included are presented in the Table 3. To elucidate mobility opportunities, a dynamic work environment and career support at work, assessments by the respondent (r) as well as by the employer (e) have been included in the analyses. Although
independent variables as well as dependent variables were described, the regression analyses do not allow firm conclusions about causality, the direction of the influence is not unequivocal. The tables below display only those variables that contribute significantly (0.01 and 0.05 level) to explained variance.

Table 3.

**Career-development-ability**

Table 3 shows that the ‘modern-career-variables’ mobility opportunity, and career support at work and in private life contribute to the ability of employees to develop their career. The greatest contribution is explained by career support at work ($\beta=.163$). A dynamic work-environment seems to have no influence on the ability to develop one’s career. A position as manager, a personal-linked-variable, proves to contribute to the explained variance in career development-ability. However, the ambition to develop oneself correlates no longer with the estimated ability, when situational-linked-variables are included in the analyses.

**Reflection on capacities**

The results in Table 3 show that it is not mobility opportunity or changing jobs that make employees reflect on their capacities, but rather change and expected change of work activity in the current work situation. Likewise, career support does not prove to effect career competencies. Of the personal variables, gender, age and development ambition correlate positively with reflection on capacities. Women reflect more often on their capacities than man. This also accounts for employees who pursue personal development. However, the standardized regression coefficient (B) shows that by every 10-year increase in age, the score on reflection on
capacities decreases by 0.01. Having a managerial position contributes no longer to the score on reflection on capacities, when situational-linked-variables are included in the analyses.

Reflection on motives
Reflection on motives is mainly explained by personal-linked-variables; variables that represent a modern career prove no relationship with this career competency. Employees who reflect on their motives are mainly women, older and pursuit meaningfulness or personal development in their work. The intention to change jobs outside the organization contributes the least to reflection on motives (β=.093).

Work exploration
In contrast to reflection on motives, the career competency ‘work exploration’ is mainly explained by situational-linked variables. Employees who explore the content of work and the possibilities to change work, are mainly employees who work in an area with good mobility opportunities (assessed by the employer) or who intent to change work within a year outside their organization. Also, career support proves to contribute to work exploration. This accounts for career support at work as well as support from the private situation to invest time or money in career development. Although work exploration is merely explained by situational-linked variables, age contributes the most (β=.117).

Career control
Apart from working in a dynamic work place, the variables of the modern career prove to contribute substantially to the competency ‘career control’, especially the career support that employees experience at work (β=.169). Also career support from the private-situation is related
to this career competency. The more support the employee experiences, the more the employee manages his work and learning process. Moreover, mobility opportunity and intentions to change work within the current employment situation, contributes to career control. To pursuit a high salary has no impact on the performance on career control, when controlled for situational-linked variables, but the contribution of the ambition for personal development remains.

**Networking**

Like career control, networking is mostly explained by the career support at work ($\beta=.152$). Support from the private-situation to invest in career development also contributes to building and supporting a network for career development. Besides career support, mobility opportunity and the intentions to change work outside the organization relate to networking. The sole personal-linked variable that relates positively to networking is the ambition for personal development. Having an operational position in an organization contributes negatively to networking. This means that employees in an operational position are less occupied with networking than employees in a managing or staff position. The variables included in the regression analyses explain almost 14% of the variance.

**Conclusions and discussion**

The first research question addressed is this article was: Which career competencies regarding career development can be identified and operationalized in an instrument that meets psychometric standards? The results of the LISREL-analysis show that six factors are relevant for career development. One of the factors is the *ability* for career development, the other five factors concern *behavior/motivation* regarding career development; reflection on capacities,
reflection on motives, work exploration, career control (of which verbal career promotion is a part) and networking. Career development-ability is the self-assessment of one’s ability, the other factors refer to the self-assessed behavior and motivation of the employee.

Secondly, the relationships between the identified career competency and characteristics of the modern career were analyzed. The research question was: Which characteristics of the modern career explain the use of career competencies, over and above personal characteristics? Variables regarding the modern career that prove to explain career development of employees are: mobility perspective, career support at work and career support in private life. In contrast to the expectations however, a dynamic work-environment does not contribute to the use of career competencies.

Career development is more effected by the variables of the modern career than by personal characteristics. Having a mobility perspective is an important predictor of ability on career development and networking. Moreover, when the employees work in an organization with good mobility opportunities (according to the employer), they tend to be more active on ‘work exploration’ and ‘career control’. Intentions of the employee to make a career move within the organization, contribute to the performance on reflection on capacities and motives, and career control. However, when employees face a change of work away from their current employment situation, they are more likely to reflect on their capacities, explore work opportunities and existing network.

The premises that working in a dynamic environment contributes to active career development of employees, which is suggested in recent literature on careers, is not supported by the data. The
only exception concerns the competency ‘reflection on capacities’. Employees who currently work in a situation in which work-tasks often change, tend to reflect more on their capacities than employees who work in a more static work-environment.

An important conclusion for the field of Human Resource Management and Development concerns the relation between career competencies and career support at the workplace. Employees who experience career support at work show more career competence than employees who experience less career support. Career support at work contributes to ability to develop one’s career as well as to behavior regarding work exploration, career control and networking. So, employees who are encouraged to manage their learning, work and network from their career perspective, actually use career competencies to do so. Although this was not specifically analyzed in this study, it is possible that the reasoning works the other way around; employees who are more competent on career control and networking manage to arrange more support at work. Either way, facilitating competent performance, by interventions or permission, promotes career competencies.

Also the support from the private-situation of the employee plays an important role in actualizing goals and motives in one’s career. Employees who experience moral support from their private environment feel more able to develop their career, and are more active in controlling their career. Support in the private situation positively effects, career development ability and career control as well as work exploration and networking.

The main conclusion of this article concerns the support of the premises on the existing relationship between characteristics of a modern career and career competencies. Further applied research that seems to be relevant given our findings is considered particularly useful in the field of career development, organizational development and education. Strengthening the conceptual
framework that was developed to define and operationalize career competencies, and empirical study of the construct validity of the instrument, are more fundamental research areas that we are currently pursuing as a continuation of the study that was reported.
Literature


Table 1.
Matrix of participating organizations

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<th>C+ D+ M+</th>
<th>C+ D+ M-</th>
<th>C+ D- M+</th>
<th>C+ D- M-</th>
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<td>School for higher vocational education</td>
<td>Ministry of Agriculture</td>
<td>Province house Friesland</td>
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<td>IT-company Siemens</td>
<td>Pharmaceutical company</td>
<td>Dutch dredge company HBG</td>
<td>Province house Groningen</td>
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<td>C- D+ M-</td>
<td>C- D- M+</td>
<td>C- D- M-</td>
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<td>Temporary employment agency Randstad</td>
<td>Academic Hospital</td>
<td>Engineer office</td>
<td>University of Twente</td>
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<tr>
<td>Food service company Sara Lee</td>
<td>Regional educational center (D+/-)</td>
<td>National Pension Fund</td>
<td>City hall Enschede</td>
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</table>

C: Career support in the work-environment  
D: Dynamic work-environment  
M: Mobility opportunities of the employees

Table 2.
Structure of career competencies in content aspects and modalities

<table>
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<th>Competencies</th>
<th>Modalities</th>
<th>Content aspects</th>
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<td>g. Behavior</td>
<td>2. Reflection on motives</td>
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<td></td>
<td>m. Motivation</td>
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<td>C2. Work exploration</td>
<td>v. Ability</td>
<td>3. Orientation on work</td>
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<td></td>
<td>g. Behavior</td>
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<td>g. Behavior</td>
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<td>b Balancing work and private life</td>
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<td>g. Behavior</td>
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<td>m. Motivation</td>
<td>10. Networking</td>
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***: significant at .001 level; **: significant at .01 level; *: significant at .05 level, n.s.: not significant