Running head: TITLE 1

The subjective experience of O*NET work experiences as demands and resources

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Abstract

6 O*NET work characteristics were rated in terms of relevance, perception of demand, and

7 perception as resource.

8 Keywords: keywords

Word count: X

The subjective experience of O*NET work experiences as demands and resources

The job demands-resources model (Demerouti, Bakker, Nachreiner, & Schaufeli, 11 2001) and later job demands-resources theory (Bakker & Demerouti, 2017) have inspired a 12 plethora a study on the process and experience of job stress and employee motivation in 13 recent decades. In the current project, we draw attention to a basic question regarding a key assumption we make regarding this process - that of the objective nature of job 15 characteristics as either demands or resources. The major contribution of this project is to 16 document whether job context and characteristics (pulled from O*NET) can simultaneously 17 be classified as resources and as demands. We further present descriptive information 18 regarding which job context and characteristics are rated the highest across jobs. 19

20 The Job demands-Resources Theory

The job demands-resources theory is an extension of the well-known job 21 demands-resources model put forth by Demerouti and colleagues in 2001 (Demerouti et al., 22 2001). The job demands-resources model had been so heavily studied that a number of 23 meta-analyses have been possible (e.g., (Crawford, LePine, & Rich, 2010); (Halbesleben, 2010); (Nahrgang, Morgeson, & Hofmann, 2011)). The theory generated by the model integrates both the job design and job stress literatures to help explain the conditions under which a job would result in employee stress vs. motivation (Bakker & Demerouti, 2014). Per the job demands-resources theory, both work environment and job characteristics can be modeled via job demands and resources. Demerouti et al. (2001) define job demands broadly as components of a job that require sustained effort, and as such, produce psychological or physiological strain (e.g., high work pressure is frequently cited as a common demand). Resources, on the other hand, are physical, psychological, social, or organizational aspects of the job that may help an employee achieve work goals, reduce job demands, or promote personal growth and development (Demerouti et al.,

2001). Experiencing an element of one's job as a resource or demand activates one of two distinct processes: either health impairment (demands) or motivation (resources; (Bakker & Demerouti, 2014). Job characteristics perceived to be demanding are effortful are frequently associated with negative outcomes such as exhaustion (e.g., Bakker, Demerouti, & Schaufeli, 2003). On the other hand, job characteristics perceived as resources (fulfil psychological needs) are associated with positive organizational outcomes like engagement and motivation (Bakker, Hakanen, Demerouti, & Xanthopoulou, 2007).

Objective vs. Subjective Nature of Demands and Resources: The Role of Appraisal

Searle and Auton (2015) note that the majority of the research on workplace 44 demands is based on apriori classifications of demands. However, the stress experience, or 45 process, described early on by Lazarus and Folkman (1984) is grounded in the assumption 46 that individual appraisals of stressors/demands vary. Their transactional theory or stress and coping states that people continuously appraise stimuli in their environments. An appraisal is the cognitive process whereby meaning is assigned to a stimulus. If a stimulus is appraised as a stressor (threat, challenge, potentially harmful), emotional distress leads to coping of some kind. This action to cope is also associated with another appraisal about the outcome itself and the process continues if the outcomes is not appraised as favorable 52 (Lazarus & Folkman, 1984). The stress appraisal process suggests that classifying a job 53 characteristic or environmental condition as an objective demand or resource might be in error. We next consider the (limited) empirical evidence on this topic. First, some relatively recent research suggests that job demands and resources may not be universally appraised or assigned as such. Starting with job demands, Webster, Beehr, and Love (2011), for example, studied workload, role ambiguity, and role conflict demands, and found while that each could be appraised primarily as challenges or hindrances demands, 59 they could also simultaneously be perceived as being both a challenge and hinderance to

different degrees. While their study did include resources, it nonetheless points to individual difference on how people perceive stressors at work. Although part of a much larger study on retirement, Sonnega, Helppie-McFall, Hudomiet, Willis, and Fisher (2018) 63 compared self-reported (subjective) ratings of degree of physical demand, stress, and need for intense concentration from the Health and Retirement Study with objective ratings from O*Net. Correlations physical demand (r = .52), stress (r = .10), and need for intense concentration (r = .14), again suggesting perhaps that our objective ratings of job demands (and resources) may be subject to a greater level of individual difference than assumed. Next considering resources, Schmitz, McCluney, Sonnega, and Hicken (2019) captured subjective and objective resources in their study of retirement also. Correlations of composite variables for the resources of autonomy (r = .12), recognition of work (r = .07), 71 decision freedom (r = .08), and advancement (r = -.01), while significant, certainly do not reflect high levels of overlap. We do acknowledge as well, that demands and resources are not necessarily consistent across days, or seasons, for many employees. Downes, Reeves, McCormick, Boswell, and Butts (2021) meta-analysis addresses this reality in depth, although it is beyond the scope of this project.

77 Current Study and Hypotheses

The current study aims to explore the degree to which job context and job
characteristic items from O*Net are considered demands and resources. Given theoretical
and empirical findings, it seems quite plausible that our apriori assignment of job elements
to a "demand" or "resource" category may be too simplistic. We aim to document a list of
the highest rated demands and resources, as well as information on overlap of job
characteristics as demands and resources, in addition to addressing the following
predictions.

Current Study and Research Questions for other studies + notes

Study 2 Introduction: Correlates with Engagement and Stress

Research on the job demands-resources model (Demerouti et al., 2001) and later job 87 demands-resources theory (Bakker & Demerouti, 2017) highlight the importance of work 88 characteristics on the experience of motivation and strain, which clearly have an impact on job performance. In this paper, we extend this critical research to that of the distinction 90 between challenge and hinderance demands (and resource) in the workplace, and how they 91 relate to two important organizational outcomes: engagement and stress. Prior to 92 presenting the current study in detail, we provide a brief overview of the relevant theories and relevant empirical work on this topic.

The Job demands-Resources Theory

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The overarching context for this study is that of the job demands-resources theory, 96 which is an expansion of the well-studied job demands-resources model (Demerouti et al., 97 2001). One of the major advantages of the job demands-resources theory is that it allows 98 us to model both work environment and job characteristics via job resources and demands. Resources include physical, psychological, social, or organizational aspects of the job that 100 may help an employee achieve work goals, reduce job demands, or promote personal growth 101 and development (Demerouti et al., 2001). In contrast, demands include components of a 102 job that require sustained effort, and as such, produce psychological or physiological strain 103 (e.g., high work pressure is frequently cited as a common demand; Demerouti et al. (2001)). Cognitively, the perception of an element of one's job as a resource or demand 105 activates one of two distinct processes: either health impairment (resulting from demands) 106 or motivation (resulting from resources) (Bakker & Demerouti, 2014). Pertinent to the 107 current study, demanding job characteristics are frequently often associated with negative 108 outcomes (e.g., Bakker et al., 2003), whereas job characteristics deemed resources have

been associated with positive organizational outcomes like engagement and motivation (Bakker et al., 2007).

12 The Essential Role of Appraisal

As implied in the last paragraph, job context and characteristics are "assigned" or 113 appraised as demands or resources. Although some research on job demands in particular 114 is based on apriori classifications of demands (Searle & Auton, 2015), the classification of a 115 work characteristic as a demand or resource is largely subjective by nature (e.g., an 116 employee could most certainly perceive being a public figure as a resource or as a demand. 117 The stress process speaks to how such individual difference in appraisal is possible. Lazarus 118 and Folkman (1984) presented the transactional theory of stress and coping, which states 119 that people cognitively appraise stimuli in their environments on a continuous basis. Via 120 this process, meaning is assigned to stimuli – if appraised as threatening, challenging, or 121 possibly harmful, the resulting emotional distress initiates coping. The cycle of appraisal 122 then continues based on the action to cope with the stressor (Lazarus & Folkman, 1984). 123

The Challenge-Hinderance Framework

Although there is a tendency to attach a negative connotation to the word "stress", 125 Selye (1936) defined stress as a response to change, which is quite non-specific. We return 126 to the employed public figure for this next section. It is quite probable that two employees 127 would be called upon to serve as a spokesperson for their organization in a time of need. 128 One may appraise the circumstance as an opportunity to positively influence others, while the other may plausibly feel paralyzed by the task. Cavanaugh, Boswell, Roehling, and Boudreau (2000) delineated between two forms of demands – that of challenge and hinderance demands. Challenge demands promote mastery, personal growth, and future 132 gains. Hinderance demands, in contrast, inhibit growth, learning and goal achievement. 133 This particular distinction has been of value in determining what demands are related to

various outcomes, whereby challenge stressors are typically associated with positive outcomes, and hinderance stressors, negative outcomes (e.g., Cavanaugh et al. (2000)).

However, one of the key questions we need to ask as researchers pertains to the very basic consideration of appraisals.

We next consider the empirical evidence on this topic. The first obvious question is 139 whether people perceive demands as challenges vs. hinderances, or whether all demands are under a larger "demands" category. Evidence suggests the employees do, in fact, 141 distinguish between challenge and hinderance stressors (e.g., Bakker & Sanz-Vergel, 2013; Gerich, 2017; Webster et al., 2011). For example, Bakker and Sanz-Vergel (2013) found 143 that perceived work pressure as a hinderance demand, and emotional demands as more of a 144 challenge demand. Webster et al. (2011) approached this question with three common 145 workplace demands: workload, role ambiguity, and role conflict. They found while that 146 each could be appraised primarily as challenges or hindrances demands, they could also 147 simultaneously be perceived as being both a challenge and hinderance to different degrees. 148 While their study did include resources, it nonetheless points to the possibility that 149 demands might be differentially appraised and related to outcomes (e.g., Podsakoff, 150 LePine, & LePine, 2007). The challenge-hinderance framework has, in fact, been associated 151 with a wide variety of organizational outcomes ranging from affective variables like job 152 satisfaction, to motivation, performance, and well-being. A sampling of variables and 153 relationships are described below to provide a sense of scope of the work that has been on 154 this topic. For example, Cavanaugh et al. (2000), in a study of managers, found that 155 challenge demands were positively related to job satisfaction and negatively related to job search behaviors, while hinderance demands demonstrated the opposite pattern. In contrast, Abbas and Raja (2019) found that challenge and hindrance stressors were both 158 positively related to strain and turnover intensions. We also have some evidence that 159 challenge-hinderance appraisals are related to engagement in the expected direction 160 whereby hinderance appraisals are negatively associated with engagement and challenge 161

appraisals are positively associated with it (Crawford et al., 2010). Challenge and 162 hinderance appraisals have also been shown to relate to citizenship and counterproductive 163 performance, although indirectly via emotions like anxiety (Rodell & Judge, 2009). Lastly, 164 Gerich (2017) concluded that employee well-being was also, in part, explained by appraised 165 challenge or hinderance demands such that working conditions of time pressure, qualitative 166 demands, responsibility, and interruptions, were partially mediated by challenge and 167 hinderance demands. We even have sufficient evidence to explore outcomes associated with 168 challenge and hinderance stressors meta-analytically at this point. Podsakoff et al. (2007) 169 supported the original assertion of Cavanaugh et al. (2000) with regard to work outcomes 170 such that challenge stressors were positively related to job satisfaction and organizational 171 commitment, and negatively related to both turnover intentions and actual turnover. The 172 opposite pattern of relationship was observed for hinderance stressors.

174 Current Study and Hypotheses

Given the abundance of theoretical and empirical support for the connection between 175 resources and positive organizational outcomes, and between demands and negative 176 resources, we sought to explore whether or not the appraisal of a demand as a challenge or 177 hinderance would be related differently to two organizational outcomes: engagement (a 178 positive affective experience defined as a fulfilling, work-related state of mind characterized 179 by vigor, dedication, and absorption, schaufeli 2002 measurement, workplace stress ("an 180 individual state characterized by a combination of high arousal and displeasure", p. 15, 181 Peitersen, Kristensen, Borg, & Bjorner, 2010) and burnout ["'The degree of physical and psychological fatigue and exhaustion that is perceived by the person as related to his/her 183 work", p. 197; Kristensen, Borritz, Villadsen, and Christensen (2005);negative affective 184 experiences). Drawing on the job demands-resources theory and the challenge-hinderance 185 framework, we propose that job elements appraised as "challenge demands" (i.e., promote 186 mastery, personal growth, and future gains) would activate (be related to) a positive state 187

- that of engagement. In contrast, elements of one's job appraised as a hinderance demand
(i.e., inhibit growth, learning and goal achievement) would activate a negative state – here,
stress.

These are extra sources below if we want more information. The intro is getting a little bit long for this one. Edwards, Franco-Watkins, Cullen, Howell, and Acuff Jr (2014) (this one is interesting – manipulated challenge and hinderance stress by offering money/taking it away based on the correctness of their decisions - of university students and measured outcomes... potentially include this in the discussion section i) Kim and Beehr (2018) Searle and Auton (2015) Tuckey et al. (2015) Webster, Beehr, and Christiansen (2010)

198 Methods

Bakker and Demerouti (2017) claim that their JD-R model has been used by,

"...many Occupational Health and Safety/Workplace Health & Safety regulators and
government agencies around the world" (p. 273). The current study expands upon this
integration by considering the crosswalk between the JD-R and O*Net.

203 Study 1

- Bakker and Demerouti (2017) state that, "...research has shown that challenge demands may be experienced as hindrance demands (and vice versa) depending on the context" (p. 278). We extend this acknowlegement by investigating whether some characteristics of work may also vacillate between demand and *resource*.
- Hypothesis 1: Job characteristics differ in variability/stability regarding subjective worker perception as a demand or resource.
- 210 Hypothesis 2: Job characteristics with the greatest variability will have industrial moderators.

top 15 demands and resources, divided by skilled versus knowledge workers,

213 Study 2

- We evaluate associations between the antecedants and proximal outcomes of the Job Demands-Resources model (Bakker & Demerouti, 2017; Bakker et al., 2003; Demerouti et al., 2001). Specifically we focus on job engagement, job stress, and burnout with a U.S. workforce representative sample.
- burnout and stress components (correlations),
- Hypothesis 1a: Job characteristics appraised as resources will be positively associated with engagement.
- Hypothesis 1b: Job characteristics appraised as resources will be negatively associated with stress.
- 223 Hypothesis 1c: Job characteristics appraised as resources will be negatively associated with burnout.
- 225 Hypothesis 2a: Job characteristics appraised as challenge demands will be positively associated with engagement.
- Hypothesis 2b: Job characteristics appraised as challenge demands will be negatively associated with stress.
- Hypothesis 2c: Job characteristics appraised as challenge demands will be negatively associated with burnout.
- Hypothesis 3a: Job characteristics appraised as hinderance demands will be negatively associated with engagement.

Hypothesis 3b: Job characteristics appraised as hinderance demands will be positively associated with stress.

Hypothesis 3c: Job characteristics appraised as hinderance demands will be positively associated with burnout.

237 Study 3

In an attempt to integrate the O*NET taxonomy within the orientation of the Job 238 Demands-Resources (Bakker & Demerouti, 2017; Bakker et al., 2003; Demerouti et al., 239 2001), a series of evaluations were made that used: 1) O*NET terminology (both descriptor 240 and response option), 2) JD-R influenced ratings of demand, challenge, or hindrance. The outcome of this integration is a cross-walk between the Department of Labor classifications and the I-O literature steeped JD-R. While O*Net provides thorough documentation of information associated with job analyses, one of the remaining limitations is its lack of connection to theory. Given the popularity of the Job Demands-Resources Theory (JD-R; Demerouti et al., 2001) in exploring questions related to everything from motivation to job design, we aim to explore the intersection between perceptions of job demands and 247 resources, and the broad set of job characteristics provided on O*Net. In an attempt to 248 integrate the O*Net taxonomy within the orientation of the JD-R framework (Bakker & 249 Demerouti, 2017; Bakker et al., 2003; Demerouti et al., 2001), a series of evaluations were 250 made that used: 1) direct O*Net terminology (both descriptor and response option), and 251 2) JD-R influenced ratings of demand, challenge, or hindrance. Prior to a description of 252 results, a brief overview of both the JD-R theory and O*Net is provided. 253

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O*Net Resource

Originally, the Advisory Panel for the Dictionary of Occupational Titles 271 recommended a system that would "... promote the effective education, training, 272 counseling, and employment of the American workforce. It should accomplish its purpose 273 by providing a database system that identified, defines, classifies, and describes occupations 274 in the economy in an accessible and flexible manner" (Dictionary of Occupational Titles 275 (US) and Service (1993), p. 6). The result was the now commonly used O*NET. The 276 Occupational Information Network (O*NET; onetonline.org) contains a comprehensive 277 description of occupations (Peterson et al., 2001). This widely accessed database houses hundreds of standardized and occupation-specific descriptors most occupations in the US 279 and these descriptions are continually updated. In fact, there was a call to work with experienced I/O psychologists over the summer to update the content for the Industrial 281 and Organizational Psychologist listing on O*Net 282 (https://www.onetonline.org/link/summary/19-3032.00). These data, and the tools 283

provided for free on the website (e.g., Career Exploration Tools, "My Next Move for
Veterans", "My Next Move", Toolkit for Business) are frequently used by counselors,
students, human resources departments, and researchers to assist potential applicants
discover the skills and training they need for the job of their choice, and also employers
with information with which to craft job descriptions and help employees determine what
skills are needed for promotion.

290 Current Study

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Interestingly, we have not yet integrated this practical and accessible resource within
the JD-R framework. This paper aims to provide such a crosswalk or integration of the
theory and practical occupations-focused data on O*Net. Several broad research questions
are examined across jobs: >Research Question 1: Which O*Net job characteristics are
consistently rated as job resources? >Research Question 2: Which O*Net job
characteristics are consistently rated as challenge demands? >Research Question 3: Which
O*Net job characteristics are consistently rated as hinderance demands?

The other distinct possibility we expect we may observe is wide variability in the
assignment of some job characteristics within the JD-R framework. In fact, a growing body
of evidence suggests people may not universally experience job characteristics as challenges
or hinderances (e.g., (Bakker & Sanz-Vergel, 2013); [cavanaugh2000empirical]; (Gerich,
2017); (Podsakoff et al., 2007); (Webster et al., 2011)). Thus, a fourth question of interest
explores just that possibility. Research Question 4: Which O*Net job characteristics show
wide variability in assigned JD-R classification of resource, challenge, or hinderance.

Results

Average rating of each category by item and focus on the ones with low SDs.

Discussion

Could be another piece of info onet uses along with descriptions – could list resource challenge hinderance

10 Participants

Qualtrics respondent "panels" were utilized

312 Materials

311

328

Characteristics, Demands, and Resources. We used 98 statements taken from

O*NET "activity" and "context" classifications. We retained 41 "work activity"

classifications which O*NET groups into categories of "Information Input" (5 statements),

"Interacting with Others" (17 statements), "Mental Processes" (10 statements) and "Work

Output" (9 statements). 57 "work context" statements grouped into "Interpersonal

Relationships" (14 statements), "Physical Work Conditions" (30 statements), and

"Structural Job Characteristics" (13 statements).

These "desriptors" have response categories see for example. We used the O*NET wording to capture characteristics of relevance for each respondent. Subsequent to these self evaluations, each respondent who agreed that the element had at least some relevance to their job was also asked to rate that element in terms of, 1) ... this aspect of your job is a resource that can be functional in achieving work goals, reduce job demands, or stimulate personal growth/development, 2) ... this aspect of your job is a challenge that can promote mastery, personal growth, or future gains, and 3) ... this aspect of your job is a hinderance that can inhibit personal growth, learning, and work goal attainment.

Our intent was to use O*NET

Burnout and Stress. Were taken from the Copenhagen Psychosocial 329 Questionnaire (Burr et al., 2019). There were 4 burnout items and 3 stress items. 330 Engagement Demographics

Procedure

331

Qualtrics panel 333

Data analysis 334

We used R (Version 4.0.3; R Core Team, 2020) and the R-packages papaja (Version 335 0.1.0.9997; Aust & Barth, 2020), and tinylabels (Barth, 2021) for all our analyses. 336

Results 337

Discussion 338

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lable 1

Top 10 work characteristics.

tot	label
item11778.00	item11778.00 identifying the educational needs of others, developing formal educat
item11677.33	recruiting, interviewing, selecting, hiring, and promoting employees
item11576.67	convincing others to buy merchandise/goods or to otherwise change the
item 11476.00	item11476.00 handling complaints, settling disputes, and resolving grievances and
item11375.33	providing guidance and expert advice to management or other groups on
item11274.67	performing for people or dealing directly with the public? This inclu
item11174.00	performing day-to-day administrative tasks such as maintaining inform
item11073.33	monitoring and controlling resources and overseeing the spending of m
item10972.67	translating or explaining what information means and how it can be us
item 10872.00	item10872.00 providing guidance and direction to subordinates, including setting p

able 2

Bottom 10 work characteristics.

tot	label
item31 20.67	item $31 20.67$ les for your job?
item30 20.00	you to meet strict deadlines?
item29 19.33	that the pace is determined by the speed of equipment or machinery?
item28 18.67	ctured for you, rather than allowing you to determine tasks, prioriti
item $27 18.00$	quire you to compete or to be aware of competitive pressures?
item26 17.33	same physical activities (e.g., key entry) or mental activities (e.g.
item25 16.67	ct or highly accurate in performing your job?
item24 16.00	usually have on other people or the image or reputation or financial
item23 15.33	to make decisions that affect other people, the financial resources,
item22 14.67	item22 14.67 m, without supervision, does your job offer?

Table 3

Top 10 work resources.

label	item202134.67 cational needs of others, developing formal educational or training p	item201134.00 ewing, selecting, hiring, and promoting employeesthis aspect o	item200133.33 o buy merchandise/goods or to otherwise change their minds or actions	item 1991 32.67 , settling disputes, and resolving grievances and conflicts, or other $$	item198132.00 and expert advice to management or other groups on technical, systems	item197131.33 le or dealing directly with the public (This includes serving custome	item196130.67 ay administrative tasks such as maintaining information files and pro	item195130.00 rolling resources and overseeing the spending of moneythis asp	item194129.33 aining what information means and how it can be usedthis aspec	item193128.67 and direction to subordinates, including setting performance standard
tot	item202134.67	item 201134.00	item 200133.33	item199132.67	item198132.00	item197131.33	item196130.67	item195130.00	item194129.33	item193128.67

23

Bottom 10 work resources.

item12784.67 k schedules are for your jobthis aspect of your job is a resource th item12684.00 meet strict deadlinesthis aspect of your job is a resource th item12583.33 ing determined by the speed of equipment or machinery (This does n item12482.67 ctured for you, rather than allowing you to determine tasks, prioriti item12382.00 aware of competitive pressuresthis aspect of your job is a resitem12281.33 physical activities (e.g., key entry) or mental activities (e.g., che item12180.67 te in performing your jobthis aspect of your job is a resource	obthis aspect of your job is a reso this aspect of your job is a resource th ed of equipment or machinery (This does n n allowing you to determine tasks, prioriti
	this aspect of your job is a resource theed of equipment or machinery (This does not allowing you to determine tasks, prioriti
	ed of equipment or machinery (This does n n allowing you to determine tasks, prioriti
	n allowing you to determine tasks, prioriti
	this aspect of wonr ion is a res
	sarcon with appear of year Job is a res
	ey entry) or mental activities (e.g., che
	this aspect of your job is a resource
item12080.00 cisions usually have on other people or the image or reputation or fi	her people or the image or reputation or fi
item11979.33 equired to make decisions that affect other people, the financial res	that affect other people, the financial res
item11878.67 aking freedom, without supervision, your job offersthis aspect	pervision, your job offersthis aspect

Table 5

Top 10 work hindrances.

tot	label
item287191.33	item287191.33 cational needs of others, developing formal educational or training p
item 286190.67	item286190.67 ewing, selecting, hiring, and promoting employeesthis aspect o
item 285190.00	item285190.00 o buy merchandise/goods or to otherwise change their minds or actions
item284189.33	item 284189.33 , settling disputes, and resolving grievances and conflicts, or other
item 283188.67	item283188.67 and expert advice to management or other groups on technical, systems
item 282188.00	item282188.00 le or dealing directly with the public (This includes serving custome
item 281187.33	item281187.33 ay administrative tasks such as maintaining information files and pro
item 280186.67	item280186.67 rolling resources and overseeing the spending of moneythis asp
item 279186.00	item279186.00 aining what information means and how it can be usedthis aspec
item278185.33	item 278185.33 and direction to subordinates, including setting performance standard

Table 6

Bottom 10 work hindrances.

tot	label
item212141.33	item212141.33 k schedules are for your jobthis aspect of your job is a hinde
item 211140.67	item211140.67 meet strict deadlinesthis aspect of your job is a hinderance t
item 210140.00	item210140.00 ing determined by the speed of equipment or machinery (This does n
item 209139.33	item209139.33 ctured for you, rather than allowing you to determine tasks, prioriti
item 208138.67	item 208138.67 aware of competitive pressuresthis aspect of your job is a hin
item 207138.00	item207138.00 physical activities (e.g., key entry) or mental activities (e.g., che
item 206137.33	item206137.33 te in performing your jobthis aspect of your job is a hinderan
item 205136.67	item205136.67 cisions usually have on other people or the image or reputation or fi
item 204136.00	item 204136.00 equired to make decisions that affect other people, the financial res
item 203135.33	item203135.33 aking freedom, without supervision, your job offersthis aspect

Table 7

Top 10 work challenges.

tot	label
0	item372248.00 cational needs of others, developing formal educational or training p
33	item371247.33 ewing, selecting, hiring, and promoting employeesthis aspect o
29	item370246.67 o buy merchandise/goods or to otherwise change their minds or actions
00	item 369246.00 , settling disputes, and resolving grievances and conflicts, or other
33	item368245.33 and expert advice to management or other groups on technical, systems
29	item367244.67 le or dealing directly with the public (This includes serving custome
00	item366244.00 ay administrative tasks such as maintaining information files and pro
33	item365243.33 rolling resources and overseeing the spending of moneythis asp
29	item364242.67 aining what information means and how it can be usedthis aspec
00	item363242.00 and direction to subordinates, including setting performance standard

Table 8

Bottom 10 work challenges.

Table 9 Scale intercorrelations (outcome variables).

	П	2	3	4	5	9	2	8	M	SD
1. engage	ı								234.22	101.27
2. absorption	1.00***	ı							255.33	110.56
3. vigor	1.00***	1.00***	1						174.83	75.20
4. dedication	1.00***	1.00***	1.00**	1					264.00	114.32
5. cognitive	1.00***	1.00***	1.00**	1.00**	1				194.71	83.93
6. affective	1.00***	1.00***	1.00**	1.00**	1.00***	1			259.89	112.54
7. behavioral	1.00***	1.00***	1.00**	1.00**	1.00***	1.00***	1		261.22	113.11
8. burnout	1.00***	1.00***	1.00**	1.00**	1.00**	1.00***	1.00***	1	249.67	108.11
9. stress	1.00***	1.00***	1.00***	1.00***	1.00***	1.00***	1.00***	1.00***	252.00	109.12

Note. * p < 0.05; ** p < 0.01; *** p < 0.001