



49 aspects. In other words, job demands are nothing but physical, emotional, and  
 50 cognitive requirements imposed by specific professions (Fernet et al., 2015). In  
 51 the case of L2 teachers' assessment, it can be defined as how assessment tasks  
 52 and duties put physical, emotional, or cognitive burdens on the shoulders of  
 53 teachers.

54 Job resources are those factors that either lessen job demands or reduce the  
 55 psychological or physiological costs associated with each job or those aspects  
 56 that have a functional role in achieving goals in working performance or the  
 57 factors that may motivate learning and personal development (Schaufeli &  
 58 Bakker, 2004). Although Hobfoll (2002) points out that the role of resources is  
 59 not limited necessarily to job demands, those factors have an important  
 60 position in their own right.

61 In line with the above explanations, if an assessment task is physically,  
 62 emotionally, and cognitively daunting, it may affect the assessment  
 63 performance of language teachers. Furthermore, if an assessment task was done  
 64 in the situation satisfactorily, it would influence teachers' assessment  
 65 performance and lead to engagement. Such an interdisciplinary look at the  
 66 assessment performance of assessors has been neglected in the assessment  
 67 literature. In this study, the researchers extended the JD-R model, proposed by  
 68 Demerouti et al. (2001), by measuring engagement and burnout independently  
 69 as possible consequences of assessment tasks either in the form of job  
 70 resources or job demands in teachers' assessment performance. The following  
 71 research questions were raised and explored:

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- 73 1. Which of the components of assessment literacy can better predict EFL
- 74 teachers' job demands?
- 75 2. Which of the components of AL can better predict EFL teachers' job
- 76 resources?
- 77 3. Which of the components of AL can better predict EFL teachers' burnout?
- 78 4. Which of the components of AL can better predict EFL teachers' work-
- 79 engagement?

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## Literature Review

### Assessment Literacy

Assessment literacy is among the most significant predictors of teachers' development in their teaching profession. According to Webb (2002), AL refers to language teachers' knowledge in assessing language and understanding the results by interpreting them. One may think of Language assessment literacy (LAL) as a repertoire of competencies that make it possible for a teacher to understand, check and, under some circumstances, develop language tests and interpret test results (Pill & Harding, 2013). A number of studies have explored AL and its components. Moreover, the prominence of

94 assessment in both pre-service and in-service programmes for teacher  
95 education has continued to manifest itself in assessment literature.

96 Brindley (2001) was among the earliest to recognize the importance of AL  
97 for language testers and educators, and the issue emerged as a theme at  
98 conferences and other fora (Hasselgreen et al., 2003; Huhta & Tarnanen,  
99 2007). The studies unanimously showed an increased need for teacher training  
100 in more learner-oriented assessment practices. Volante and Fazio (2007)  
101 advocated a systematic analysis of potential discrepancies between student-  
102 teachers' assessment curriculum and their actual achievements.

103 Davies (2008), proposed an extensive set of goals for AL education  
104 comprising domains of skills, knowledge, and principles. Following Brindley's  
105 model, Inbar-Lourie (2008) outlined a tripartite model aligning practical and  
106 theoretical knowledge with a socio-historical understanding of the implications  
107 of assessment. Inbar-Lourie, (2008) also underlined the value of intertwining  
108 assessment and learning by adhering to assessment-for-learning practices  
109 (Black & Wiliam, 1998) and to dynamic assessment (Poehner & Lantolf, 2005)  
110 in the field of AL. Popham (2009) attempted to set standards for assessment,  
111 particularly in the field of teacher education. He provided a collection of  
112 teacher- and student-oriented statements incorporating practical assessment  
113 knowledge and skills.

114 Voss et al. (2011) tested an overall framework for student teachers'  
115 psychological/pedagogical knowledge and suggested empirical structures  
116 entailing the following kinds of knowledge relating to: classroom management,  
117 classroom assessment, teaching methods, the learning processes, and learner  
118 characteristics. At the same time, Brookhart (2011) offered an  
119 operationalization of teacher assessment abilities and skills applicable to both  
120 classroom assessment and test administration. Giving feedback,  
121 communication and scaffolding student autonomy in assessment are informed  
122 by Brookhart's work.

123 Fulcher (2012), incorporated practical knowledge, theoretical knowledge,  
124 and socio-historical understanding of assessment-related activities. Fulcher also  
125 appreciated student-teachers and their experiences of courses and academic  
126 study. Also, he acknowledged that competence at all levels should not be  
127 required form all stakeholders. Taylor (2013) suggested different profiles for  
128 various groups of stakeholders comprising the following components: technical  
129 skills, language pedagogy, knowledge of theory, personal beliefs, principles  
130 and concepts, local practices, and decision-making. In a qualitative study,  
131 Baker and Riches (2013) looked at the way LAL is developed in teachers and  
132 language assessment experts while they were collaboratively engaged in  
133 revising national examinations in the Haitian EFL context. The finding  
134 revealed that the LAL of both groups developed.

135 Jeong (2013) explored the way language assessment courses (LACs) were  
136 offered in different countries and how the course instructor influenced such  
137 courses. The findings showed that the content of LACs may significantly vary  
138 depending on factors like the language testing background of the instructors in  
139 such areas as test specifications and theories, basic statistics, development of

140 rubric, classroom assessment, and accommodation of test. Lam (2015)  
 141 attempted to shed more light on how language assessment courses are offered  
 142 in Hong Kong and the way such courses influence pre-service teachers'  
 143 development of LAL. The findings showed that training in language  
 144 assessment remained inadequate and the gap between theory and practice  
 145 within the context of assessment reform was not bridged even by selected  
 146 LACs.

147 Xu and Brown (2016) revisited knowledge aspects of previous AL models  
 148 in a large-scale study. The knowledge constituents incorporated included  
 149 knowledge of assessment purposes, disciplinary knowledge and pedagogical  
 150 content knowledge, knowledge of grading, content and methods, feedback  
 151 knowledge, knowledge of interpreting assessment and communication,  
 152 knowledge of self and peer-assessment, and knowledge of ethics in assessment.  
 153 Deneen and Brown (2016) examined the effect of an educational assessment  
 154 course on MA level student teachers and reported that the AL of both pre-  
 155 service and practicing teachers increased. In another study, Fernando (2018)  
 156 investigated the effect of literacy assessment in a formative academic context  
 157 on engaging students in their writing processes through a web learning  
 158 platform. The findings indicated that the use of online technology to conduct  
 159 literacy assessment in a formative academic context can reduce students' fear  
 160 of written assessment and improve their writing.

161 The developments in the area of AL in recent years, and the increased  
 162 expectations of learners for explicit assessment, have left teachers with no  
 163 choice but to become assessment literate. In this regard, Medland (2015)  
 164 clearly acknowledges the non-mature state of AL, which needs to be  
 165 accompanied by more literature in the higher education context. William  
 166 (2015) echoes a similar sentiment. Similar to other contexts, the Iranian EFL  
 167 context has a long path to reach the ideal status in the AL of language teachers  
 168 (Mellati & Khademi, 2018).

169

### 170 **Job Demand-Resource and its Consequences**

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172 Much has been done on job demand-resource and its consequences either  
 173 as engagement or burnout. For example, Jansen et al. (2020) investigated how  
 174 motivation and psychological need satisfaction can account for the way job  
 175 resources and job demands affect teachers' learning commitment. The findings  
 176 showed positive relationships between satisfaction of basic psychological  
 177 needs, teachers' job resources experience, commitment to professional  
 178 learning, and autonomous motivation. However, there was no relationship  
 179 between basic need satisfaction job and demands. In another study, De Carlo et  
 180 al. (2019) examined the how work-related factors (in the form of job resources  
 181 and job demands) were associated with work-family conflict (WFC) in  
 182 teachers. They reported that workload (in both forms) had a positive  
 183 relationship with WFC, and job resources buffered this association.

184 Additionally, Yin et al. (2018) investigated the factors predicting teachers'  
 185 well-being at both individual and school levels by incorporating individual

186 factors into the JD-R model. The findings suggested that emotional job  
187 demands of teaching at the school-level and suppression at the individual level  
188 has positive relationships with teachers' depression and anxiety, while trust in  
189 colleagues (school-level) and reappraisal (individual-level) had positive  
190 relationships with contentment and enthusiasm. Emotional job demands also  
191 turned out to be positively associated with suppression. Also, Saleem et al.  
192 (2017) studied the correlations between principals' leadership styles and  
193 teachers' organizational commitment and reported a significant relationship  
194 between them.

195 Furthermore, Khan et al. (2014) reviewed the associations between job  
196 resources, job demands, and burnout empirical studies through a non-  
197 systematic existing literature review. They recommended that factors  
198 contributing to JD-R and burnout be located and controlled in an organized  
199 way. Also, Ismail et al. (2009) studied the relationship between job  
200 performance and occupational stress, focusing on emotional intelligence  
201 among academicians. They found that job performance was related to  
202 occupational stress and that emotional intelligence mediated this relationship.

203 Winefield et al. (2003) studied occupational stress among Australian  
204 university staff. They found that general staff were better off in comparison  
205 with academic staff. They also found that the new staff experienced more strain  
206 and less job satisfaction. In addition, self-report measures of psychological  
207 wellbeing were correlated with objective measures of university well-being.  
208 Also, Aimi Roslan et al. (2015) investigated teachers' work engagement and  
209 burnout. The results indicated that job demands and job resources were  
210 negatively correlated. The results also suggested a positive relationship  
211 between burnout and job demands.

212 Shaikh et al. (2018) analyzed the effect of personal resources and job  
213 resources on university teachers' job engagement. They found that both factors  
214 had a notable role in predicting work engagement. Also, Jagodics and Szabó  
215 (2014) found a positive relationship between burnout and job demands.  
216 However, job resources and burnout were negatively correlated. They further  
217 reported that burnout was negatively related to professional and emotional  
218 support of co-workers. The results imply that certain factors of the workplace  
219 contribute to the development of burnout, whereas others appear to lessen the  
220 impact of job demands. Furthermore, the findings indicated that burnout was  
221 significantly affected by the social environment of the workplace.

222 Javed and Cheema (2015) found that organizational resources such as  
223 marketing capability, technology and financial resources increase work  
224 engagement. In addition, they observed that work engagement and  
225 organizational resources increase service climate, which in turn, improves the  
226 performance of employees.

227 Vera et al. (2012) analyzed the role of self-efficacy in predicting the JD-R  
228 Model. The researchers longitudinally examined the two underlying processes  
229 including the motivational process and the erosion process among teachers.  
230 The findings confirmed both processes and the predictive power of self-  
231 efficacy.

232 Salmela-Aro and Upadyaya (2018) examined the relationships among  
233 personal and JD-R, engagement and work burnout during career stages. They  
234 also assessed the relationship between general well-being with burnout and  
235 work engagement. The findings showed that, particularly during the early  
236 stages of career, economic problems appeared to be linked to burnout  
237 symptoms. However, in the later stages, caregiving demands had a positive  
238 relationship with work burnout but a negative association with work  
239 engagement. The findings further suggested that, during early career stages,  
240 ICT demands were positively related to work burnout. Also, life satisfaction  
241 was related to work engagement while depressive symptoms were linked to  
242 work burnout in all career stages.

243 Grayson and Alvarez (2008) evaluated the effect of components of school  
244 climate on the dimensions of emotional exhaustion, including  
245 depersonalization and feelings of low personal accomplishment. Results  
246 indicated that each burnout subscale was related to different school climate-  
247 related criteria. Similarly, Prieto et al. (2008) attempted to predict burnout  
248 among teachers based on the JD-R model by adding personal resources. The  
249 results showed that quantitative overload has a predictive role in exhaustion  
250 and dedication.

251 Bayani et al. (2003) investigated Iranian high school teachers' sex, age,  
252 and years of experience to determine which factor was more likely to lead to  
253 burn-out. The results indicated that male teachers were more likely to be  
254 infected with burnout compared to female teachers. This study emphasized the  
255 significance of designing a well-structured and evaluative burnout reduction  
256 program. Also, Gonzalez-Roma et al. (2006) examined the relationship  
257 between work engagement and burnout to see if they were independent factors.  
258 The results showed that work engagement and burnout were, in fact, opposite  
259 factors. In a similar study, Schaufeli et al. (2008) reported a positive correlation  
260 between burnout and workaholism. However, there was no significant  
261 relationship between workaholism and work engagement. In another study,  
262 Skaalvik (2020) studied the perceptions of school principals' regarding job  
263 resources and demands. The results showed seven potential moderately-  
264 correlated job resources and nine moderately-correlated job demands factors.  
265 Moreover, it was reported that, of the potential resources and demands, only  
266 four were significantly related to emotional exhaustion, job satisfaction, and  
267 motivation to quit. Meanwhile, emotional exhaustion and job satisfaction  
268 mediated the relationships between motivation to quit and JD-Rs.

269 From the above review, it can be noted that many studies have looked at  
270 teacher assessment through giving prominence to different components and  
271 combinations of them. Meanwhile, several studies have considered the effects  
272 of JD-R and its consequences in the form of burnout and engagement in  
273 different professions. However, few studies, if any, have linked JD-R to AL,  
274 especially in the form of assessment performance. This study is undertaken  
275 with the aim of addressing this gap.

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## Methodology

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### Participants and Setting

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282 To collect data, 146 Iranian EFL teachers (67 males and 79 females) from  
 283 different provinces of Iran including Markazi, Qazvin, Tehran, Fars,  
 284 Khuzestan, and Mazandaran were selected through convenience sampling. The  
 285 participants were English language teachers with teaching experience ranging  
 286 from four to 40 years. Their age range was between 21 and 65 years. The  
 287 sample consisted of 22 B.A. holders, 75 M.A. students or MA holder and 49  
 288 PhD students or PhD holders.

289

### Instrumentation

291

292 The following data collection instruments were utilized to meet the  
 293 objectives of this study.

294

#### The Researcher-made Assessment Literacy Questionnaire

296

297 The researcher-made questionnaire included 35 items assessing 9  
 298 components of AL such as: test construction (5 items), administering, rating  
 299 and interpreting test (5 items), alternative and digital-based assessment (4  
 300 items), giving feedback in assessment (3 items), ethical and cultural  
 301 considerations (5 items), psychometric properties of a test (3 items), using and  
 302 interpreting statistics (4 items), recognizing test types, distinction and function  
 303 (3 items), and authenticity of a test (3 items). This 5-point Likert questionnaire  
 304 required teachers to show their knowledge in each of these items. The  
 305 researcher estimated the reliability of the newly developed questionnaire using  
 306 Cronbach's alpha (.87). Moreover, the content validity of the instrument was  
 307 checked through expert judgment.

308

#### Burnout Questionnaire

310

311 This study utilized 'Copenhagen Burnout Inventory; CBI' to assess  
 312 academic burnout (Kristensen, et al., 2005). In this study, only the personal  
 313 burnout scale was used. This scale refers to the degree of exhaustion  
 314 (psychological and physical) experienced by a person (Kristensen, et al., 2005).  
 315 This scale contains six questions. Language teachers were given a five-point  
 316 Likert scale to indicate their answer, ranging from 1 (never) to 5 (always). Its  
 317 validity was checked through expert judgment, and its reliability was estimated  
 318 using Cronbach alpha to be .83.

319

#### Engagement Questionnaire

321

322 Language teachers' job engagement was assessed using the short version  
 323 of the Utrecht Work Engagement Scale (UWES) (Schaufeli & Salanova, 2007).

324 It had three subscales including 17 statements that reflected the underlying  
325 dimensions of engagement: vigour (6 items), dedication (5 items), and  
326 absorption (6 items). All items were scored on a 7-point frequency rating scale  
327 ranging from 0 (never) to 6 (always). Schaufeli and Bakker (2004) reported  
328 correlations among all dimensions from 0.90 to 0.95. The researcher estimated  
329 the reliability of this scale using Cronbach alpha (0.87).

330

331 Job Demand and Resources Questionnaire

332

333 The job demand questionnaire includes two main sections; the first one  
334 (job demand) includes seven parts, each of which includes four questions: pace  
335 and amount of work, mental load, emotional load, physical effort, changes in  
336 tasks, ambiguities about work, and uncertainty about future. The second one  
337 (job resource) also involves seven parts, each of which includes four questions:  
338 participation, information, communication, relationship with superior,  
339 relationship with colleagues, remuneration, and independence in the work.  
340 Both parts are 5-point Likert scale ranging from 1(never) to 5 (always). The  
341 researchers checked its validity through expert judgment and estimated its  
342 reliability (0.83), using Cronbach alpha.

343

#### 344 **Procedure and Data Analysis**

345

346 The researchers extended the JD-R model which was proposed by  
347 Demerouti et al. (2001), by measuring engagement and burnout independently  
348 as possible consequences of assessment tasks either in the form of job demands  
349 or job resources in teachers' assessment performance. Initially, the researchers  
350 developed an AL questionnaire that assessed various aspects of AL and  
351 distributed it among 386 Iranian EFL teachers. A Principal Component  
352 Analysis (PCA) was carried out, and a questionnaire with 35 items which  
353 evaluated nine components of AL was developed.

354 Then, the validated version of the researcher-made questionnaire and the  
355 JD-R, burnout and engagement questionnaires were administered to 220 EFL  
356 teachers via e-mail, social messaging applications like WhatsApp, Telegram,  
357 and Google forms. The process of distributing the questionnaires and the  
358 method of collection was as follows. First, the participants' s consent was  
359 sought, and the researchers explained that the process of data collection is such  
360 that each respondent must answer four questionnaires with time intervals to  
361 both prevent fatigue and help them achieve the desired goal. The participants  
362 were given opportunities to ask questions if they had any. Then, the four  
363 questionnaires were sent out to the teachers. Despite completing the consent  
364 form, only 146 of the participants filled out all the four questionnaires. To  
365 answer the research questions, a series of multiple regression analyses were  
366 conducted.

367

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369



## Results

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371

### The First Research Question

373

374 The first question aimed at examining the predictive power of the  
 375 components of AL over job demand scores. To answer this question, a multiple  
 376 regression analysis was used. The first step was checking its assumptions. The  
 377 Durbin-Watson statistic was used to check the independence of residuals.  
 378 Table 1 shows the result.

379

380 *Table 1.* Durbin-Watson statistic for Checking Independence of Observations  
 381 for Job Demand

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	1.000 <sup>a</sup>	.999	.999	.284	2.053

382

383 In this table, the value of Durbin-Watson statistic is 2.053, which is in the  
 384 range of 1.5 to 2.5. Therefore, it can be concluded that the data are  
 385 independently observed. The second assumption is multicollinearity. To test  
 386 this assumption, the correlation between each pair of AL components was  
 387 checked, the results of which are presented in Table 2.

388

389 *Table 2.* Analysis of Multicollinearity between Each Pair of Independent  
 390 Variables

	F1	F2	F3	F4	F5	F6	F7	F8	F9
F1	1	-.102	-.017	.448*	-.417*	-.084	.447*	-.124	-.046
F2		1	.573*	-.174*	-.018	.551*	-.060	.060	-.129
F3			1	-.178*	-.139	.599*	.050	.085	-.040
F4				1	-.217**	-.073	.271*	-.044	.055
F5					1	-.009	-.404*	.065	-.027
F6						1	.056	.104	.041
F7							1	-.019	.097
F8								1	-.070
F9									1

391

392 As the coefficients of correlation in Table 2 indicate, there is no high  
 393 correlation between any pairs of components; thus, the assumption has been  
 394 met. The third assumption is homoscedasticity, which was checked by  
 395 examining the scatterplot; there was no sign of the violation of this assumption.  
 396 After checking the assumptions, the researchers ran multiple regression using  
 397 the standard Method. Model Summary is presented in Table 3.

398

399 *Table 3. Model Summary*

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	1.000a	.999	.999	.284

a. Predictors: (Constant), F9, F5, F6, F8, F4, F7, F2, F1, F3

400

401 Table 4 reports the ANOVA which assesses the overall significance of the  
 402 multiple regression model. It shows that the model is significant ( $F_{(9, 136)} =$   
 403  $20854, P < .05$ ).

404

405 *Table 4. ANOVA for Significance of the Multiple Regression Model of AL*  
 406 *Components and Job Demand*

Model		Sum of Squares	df	Mean Square	F	Sig.
	Regression	15124.034	9	1680.448	20854.248	.000
1	Residual	10.959	136	.081		
	Total	15134.993	145			

407

408 Table 5 shows the standardised coefficients. It indicates that the p-values  
 409 for five components of AL, including test construction, administering, rating,  
 410 and interpreting test, psychometric properties of a test, using and interpreting  
 411 statistics and authenticity are less than 0.05. This means that these components  
 412 of AL are significant predictors of job demand with coefficients of 0.422,  
 413 0.443, 0.422, 0.338, and 0.290, respectively.

414

415 *Table 5. Standardised Coefficients for Job Demand*

Model		Standardized Coefficients		Sig.
		Beta	t	
1	(Constant)		1.366	.174
	F1	.422	142.997	.000
	F2	.443	145.852	.000
	F3	-.002	-.584	.561
	F4	-.003	-1.000	.319
	F5	-.004	-1.441	.152
	F6	.422	135.468	.000
	F7	.338	123.963	.000
	F8	-.003	-1.430	.155
	F9	.290	121.931	.000

416

## 417 **The Second Research Question**

418

419 Investigating the predictive power of job resource over the components of  
 420 AL was the aim of the second question. To answer this question, a multiple  
 421 regression analysis was run. Prior to that, the assumptions were checked. The

422 Durbin-Watson statistic confirmed the assumption of independence of  
423 residuals.

424

425 *Table 6.* Durbin-Watson statistic for Checking Independence of Observations  
426 of AL Components and Job Resource

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	1.000 <sup>a</sup>	.999	.999	.300	2.160

427

428 As Table 6 indicates, the value of Durbin-Watson statistic is 2.160, which  
429 is in the range of 1.5 to 2.5. So, the data are independently observed.  
430 Multicollinearity was already checked in Table 2. The assumption of  
431 homoscedasticity was also checked, and the scatterplot showed that there was  
432 no violation. Then, multiple regression analysis was run using Enter Method to  
433 determine the significant predictors of job resource. Table 7 presents the model  
434 summary.

435 *Table 7.* Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	1.000 <sup>a</sup>	.999	.999	.300

a. Predictors: (Constant), F9, F5, F6, F8, F4, F7, F2, F1, F3

436 The ANOVA which assessed the overall significance of the multiple  
437 regression model showed that the model was significant ( $F_{(9, 136)} = 2338$ ,  $P <$   
438  $.05$ ). Table 8 shows the standardised coefficients. It shows that three  
439 components of AL (i.e., alternative and digital-based assessment, recognizing  
440 test type, distinction and function, and authenticity) were significant predictors  
441 of the participants' job resource scores with coefficients of 0.582, 0.680, and  
442 0.438, respectively.

443

444 *Table 8.* Standardised Coefficients for Job Resource

Model	Standardized Coefficients		
	Beta	t	Sig.
1	(Constant)	1.130	.261
	F1	-.001	.847
	F2	-.001	.642
	F3	.582	.000
	F4	-.003	.279
	F5	-.003	.293
	F6	.002	.489
	F7	-.003	.198
	F8	.680	.000
	F9	.438	.000

445

446 **The Third Research Question**

447

448 The third research question investigated the predictability of the burnout  
 449 scores of the participants by the components of AL. To answer this question, a  
 450 multiple regression analysis had to be run. Like the previous research  
 451 questions, the first step was checking its assumptions. The Durbin-Watson  
 452 statistic was checked for the assumption of independence of residuals. The  
 453 result (Durbin-Watson statistic = 1.86) showed that the value was in the range  
 454 of 1.5 to 2.5. The second assumption (multicollinearity) was checked and its  
 455 results were reported in Table 2. After checking the scatterplot for the  
 456 assumption of homoscedasticity, multiple regression analysis was done. The  
 457 model summary is presented in Table 9.

458

459 **Table 9. Model Summary for Burnout**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.996a	.992	.992	.279

a. Predictors: (Constant), F9, F5, F6, F8, F4, F7, F2, F1, F3

460

461 ANOVA results ( $F_{(9, 136)} = 1941, P < .005$ ) showed that the model was  
 462 significant. Therefore, the results of the standardised coefficients could be  
 463 considered. Table 10 shows that four components of AL (i.e., test construction,  
 464 administering, rating, and interpreting test, psychometric properties of a test,  
 465 and using and interpreting statistics) were significant predictors of burnout with  
 466 multiple regression coefficients of 0.498, 0.531, 0.509, and 0.024, respectively.

467

468 **Table 10. Standardised coefficients for Burnout**

Model	Standardized Coefficients	t	Sig.	
	Beta			
	(Constant)	-2.085	.039	
1	F1	.498	.000	
	F2	.531	.000	
	F3	-.004	-.390	.697
	F4	.000	-.044	.965
	F5	.010	1.194	.235
	F6	.509	50.024	.000
	F7	.024	2.733	.007
	F8	.003	.330	.742
	F9	.001	.065	.948

469

470 **The Fourth Research Question**

471

472 In order to examine the predictability of the engagement scores of the  
 473 participants by the components of AL, which was the objective of the fourth

474 research question, the researchers ran a multiple regression analysis on the  
 475 data. As usual, prior to running this test, its assumptions were checked. The  
 476 Durbin-Watson statistic was checked for the assumption of independence of  
 477 residuals; the result (Durbin-Watson statistic = 2.053) showed that the  
 478 assumption was met. The multicollinearity assumption was checked in Table 2.  
 479 The assumption of homoscedasticity was also checked.

480 As the necessary assumptions for running the multiple regression analysis  
 481 were met, the researchers ran this test using Enter Method to determine the  
 482 components of the assessment literacy which predict the work-engagement  
 483 scores of the participants. Model summary is presented in Table 11.

484  
 485 *Table 11. Model Summary for Engagement*

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.999a	.998	.998	.271

a. Predictors: (Constant), F9, F5, F6, F8, F4, F7, F2, F1, F3

486

487 The significance of the regression model was checked, and ANOVA  
 488 results ( $F_{(9, 136)} = 9769$ ,  $P < .005$ ) showed that the model was significant and  
 489 that we could refer to the results of standardised coefficients (Table 12).

490

491 *Table 12. Standardised Coefficients for Engagement*

Model		Standardized Coefficients		Sig.
		Beta	t	
1	(Constant)		1.600	.112
	F1	-.002	-.407	.685
	F2	.001	.304	.762
	F3	.639	137.042	.000
	F4	.599	153.665	.000
	F5	.662	169.197	.000
	F6	.002	.417	.677
	F7	-.009	-2.234	.027
	F8	.003	.779	.437
	F9	.475	136.644	.000

492

493 Table 17 indicates that four components of AL, including Alternative and  
 494 Digital-based Assessment, Giving Feedback in Assessment, and Ethical and  
 495 Cultural Considerations in Assessment) were significant predictors of the  
 496 participants' engagement scores with multiple regression coefficients of 0.639,  
 497 0.599, 0.662, and 0.475, respectively.

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## Discussion

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This study revealed that some components of AL including test construction, administering, rating, and interpreting test, psychometric properties of a test, using and interpreting statistics and authenticity were significant predictors of job demand. Interestingly, social, cultural, and psychological factors were not among these factors. This can be associated with the fact that still traditional beliefs are being held by many second language teachers. This finding seems to be in line with those of some previous studies (e.g., Aimi Roslan et al., 2015; Jagodics & Szabó, 2014) This similarity between the findings of this study and those of previous research can be explained with the fact that job demands are nothing but physical, emotional, and cognitive requirements imposed by specific professions (Fernet et al., 2015). If an assessment task is physically, emotionally, and cognitively daunting, it may affect the assessment performance of language teachers. Another reason for the similarity might be that the more quantitative and cognitively demanding the task assessment, the more difficult it would be to handle. As a result, those observed AL components as predictors of job demand need more time and amount of work and higher levels of information processing to handle.

These findings are also in contrast with those of some other studies. For instance, Mulder (2017) has argued that psychological stress is an important factor. Also, Maertz et al. (2007) have stated that social and psychological factors are significantly associated with job demand. This contrast can be linked to the educational context of Iran, where many teachers tend to hold traditional beliefs about language teaching and assessment. Another reason might be the neglect of psychological and sociocultural issues by managers, which need to be addressed.

It should be acknowledged that some previous studies have provided more comprehensive explanations in that they have considered factors such as psychological characteristics (Jansen et al., 2020) as well as exhaustion and motivation (Skaalvik, 2020) as important factors. Hence, we acknowledge this shortcoming of our study. The reason can be associated with the fact that this study focused mainly on the test itself, rather than the participants. Moreover, some studies have focused on factors outside school. For instance, De Carlo et al. (2019) considered work-family conflict as one of the important factors.

Moreover, this study showed that some components of AL were significant predictors of job resource. The factors of AL which predict job resources (alternative and digital-based assessment, recognizing test type, distinction and function, and authenticity) are associated with assessment itself. This shows that Iranian teachers do not seem to pay much attention to the role of sociocultural and psychological factors. This is inconsistent with Skaalvik (2020), who argued that psychological factors are important as well. The inconsistency may be due to the differences between the contexts where the two studies were conducted. It seems that there are some differences between teachers in different contexts. Similar to Slaalvik, De Carlo et al. (2019)

547 considered protective factors as an important issue regarding job resources.  
548 Also, Yu et al. (2018) reported that psychological factors are of crucial  
549 importance. However, the participants of neither this study nor previous studies  
550 have considered social factors as an important element regarding job resources.

551 In some ways, this finding seems to be in line with that of Javed and  
552 Cheema (2015), who observed that work engagement and organizational  
553 resources increase service climate, thus improving employee performance. The  
554 similarity between the findings of this study and those of others can be  
555 explained with the fact that job resources constitute those psychological,  
556 physical, social, and organizational aspects of the job that are useful in  
557 achieving work objectives, lowering job demands, and stimulating personal  
558 growth (Bakker & Demerouti, 2007; Schaufeli & Bakker, 2004). Furthermore,  
559 Fischer (2002) believes that environmental and organizational factors can  
560 affect the assessment performance of teachers. Therefore, it could be concluded  
561 that alternative and digitally-based assessment, as one of the technological  
562 resources at the service of the teachers, could be seen as a valuable resource to  
563 deal with assessment tasks.

564 This study also showed that we need to pay more attention to factors other  
565 than those associated with the test itself – such as those related to the  
566 individuals and their families. In this regard, there seem to be some similarities  
567 between the findings of the present study and those of previous ones. For  
568 instance, Yin et al. (2018) have argued that personal factors are important.  
569 Especially, they have focused on anxiety and depression. In similar veins,  
570 Shaikh et al. (2018) have argued that personal and psychological factors are  
571 crucial. De Carlo et al. (2019) have considered families as well. However, they  
572 have simply focused on work-family conflict and have not considered other  
573 issues associated with teachers' families. Hence, it can be predicted that in the  
574 future, more studies will focus on the sociocultural dimension. This problem  
575 exists in the context of Iran as well (Khanjani et al., 2016; Mellati & Khademi,  
576 2018; Razavipour et al., 2011). In the context of Iran, only recent studies have  
577 considered either the social or the psychological aspect. For instance, Moradan  
578 and Pourasadollah (2014) have focused on the psychological aspect, albeit only  
579 partially. Also, Zolfaghari and Ahmadi (2016) have paid a little attention to the  
580 social aspect. However, as findings of this study showed, more research should  
581 be done in this regard.

582 Also, this study showed that test construction, administering, rating, and  
583 interpreting test, psychometric properties of a test, and using and interpreting  
584 statistics can significantly predict teachers' burnout. Similar to the previous  
585 questions, the results revealed that the participants considered traditional  
586 properties as more important. Previous research suggests that social and  
587 psychological factors are the main sources of burnout. For example, Jadgodics  
588 and Szabo (2014) reported that emotional issues and peer conflicts are among  
589 the most important sources of teachers' burnout. Moreover, they argued that  
590 emotional and professional social support of co-workers can prevent burnout.  
591 Similarly, Vera et al. (2012) found that emotional and social factors such as  
592 autonomy, social support and self-efficacy are important factors when dealing

593 with burnout. Similarly, Maslach and Leiter (2016) have argued that burnout is  
594 caused by chronic physical, emotional, and mental stresses. Therefore, it seems  
595 necessary to inform Iranian EFL teachers about the importance of  
596 psychological and social factors.

597 Like the previous questions, there are contradictions between the findings  
598 of this question and those of the previous studies. For instance, Bayani et al.  
599 (2013) have introduced personal factors like gender as important. Similarly,  
600 engagement was introduced by Gonzalez-Roma et al. (2006) as another  
601 important factor to predict burnout. Grayson and Alvarez (2008) considered  
602 school environment as an important factor. The reason for the differences may  
603 be the fact that while the present study has not paid enough attention to  
604 personal and contextual factors in predicting teachers' burnout, previous  
605 studies have not paid enough attention to factors related to the test itself.

606 This study also showed that some factors of AL including alternative and  
607 digital-based assessment, giving feedback in assessment, and ethical and  
608 cultural considerations in assessment can significantly predict teachers'  
609 engagement. Contrary to the previous research questions, the responses to this  
610 question revealed participants' attention to cultural and ethical considerations  
611 in addition to traditional issues. However, social and emotional issues still tend  
612 to be ignored. This is inconsistent with some of the previous studies. For  
613 instance, Salmela-Aro and Upadyaya (2018) argued that life satisfaction and  
614 depression are associated with burnout. Roslan et al. (2015) reported that job  
615 demands such as pupils' misbehavior are a source of teachers' burnout. Also,  
616 Javed and Cheema (2015) argued that service climate is an important source of  
617 burnout.

618 Since work engagement and motivation are the two faces of the same coin  
619 (Gagné, 2014), because work engagement is actually the fulfilling state of  
620 mind that is work-related and is characterized by dedication, vigor, and  
621 absorption (Schaufeli et al., 2002), surprisingly, those AL components that  
622 predict engagement are those factors which can increase motivation in the  
623 relationship between student and teacher in assessment tasks such as giving  
624 feedback, or paying attention to cultural issues. Moreover, one of the  
625 components that predict engagement (alternative and digital-based assessment)  
626 is the predictor of job resource, too. This is consistent with Vera et al. (2012),  
627 who reported that job resources foster engagement.

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### 630 **Conclusion and implications**

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632 By extending the JDR model to assessment performance, this study  
633 indicated that assessment related performance such as test construction,  
634 administering, rating, and interpreting test, psychometric properties of a test,  
635 using and interpreting statistics and authenticity, being on the shoulder of  
636 second language teachers, especially in examination-oriented contexts such as  
637 Iran, can lead to job demands. These physical, social, or organizational  
638 demands require more emotional, psychological, physical, and mental effort.



639 The finding also showed that AL components that predict job resources  
640 such as alternative and digitally-based assessment as one of the technological  
641 resources at the service of the teachers could be seen as a valuable resource to  
642 deal with assessment tasks. Also, this study showed that test construction,  
643 administering, rating, and interpreting test, psychometric properties of a test,  
644 and using and interpreting statistics can significantly predict teachers' burnout.  
645 The reason is that the four components of AL that predict job demands are  
646 among the predictor of burnout. Moreover, this is in line with the idea that in  
647 the job stress context, the strain like burnout is considered as a sort of a  
648 deleterious condition, which is caused by job stressors/demands (Jain et al.,  
649 2013).

650 On the other hand, the findings indicated that some factors of AL  
651 including alternative and digital-based assessment, giving feedback in  
652 assessment, and ethical and cultural considerations in assessment can  
653 significantly predict teachers' engagement. Those AL components that predict  
654 engagement are those factors which can increase motivation in the relationship  
655 between student and teacher in assessment tasks such as giving feedback, or  
656 paying attention to cultural issues. Moreover, one of the components that  
657 predict engagement (alternative and digital-based assessment) is the predictor  
658 of job resource, too. This shows that job resources significantly influence  
659 teachers' engagement.

660 All in all, it appears that in the context of Iran, not only are teachers  
661 affected by job demands such as test construction, administering, rating, and  
662 interpreting test, psychometric properties of a test, using and interpreting  
663 statistics and authenticity in their assessment performance - but also they are  
664 not provided with enough job resources in assessment performance such as  
665 alternative and digitally-based assessment as one of the technological  
666 resources. Furthermore, factors such as alternative and digital-based  
667 assessment, giving feedback in assessment, and ethical and cultural  
668 considerations in assessment as predictors of engagement in assessment  
669 performance should be included as essential components of successful  
670 assessment performance.

671 The finding of this study can be used by authorities in order to design  
672 teacher assessment training programs which attempt to provide teachers with  
673 enough assessment resources to reduce the burden of assessment tasks  
674 (demands) on the shoulders of teachers. Teachers themselves also can use the  
675 finding of this study to become more familiar with assessment resource aspects  
676 that will lead to motivation in their assessment task and prevent them from  
677 burnout. Moreover, teachers can try to design and interpret authentic tests,  
678 digital-based assessment, and computer-based assessment, each of which offers  
679 an opportunity to access job resources and get away from burnout.

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