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Abstract: Career self-efficacy is an important aspect of making choice, planning, and decision-related to career. Social Career Cognitive Theory (SCCT) is a career theory explaining the career self-efficacy aspect. SCCT has been expanded in the career aspect in 1994 which emphasis interest, career choice and performance aspect. Besides that, SCCT also emphasizes the importance of self-efficacy in career development externally and internally. This article elaborates on SCCT and the importance of SCCT in explaining the career self-efficacy (CSE) aspect. There are a few theories related to individual career aspects, namely Life Span Theory (Super, 1957), Holland’s Theory (Holland, 1959) and Social Cognitive Career Theory (SCCT). However, SCCT has been chosen as a theoretical base to explain the CSE based on the justifications addressed in this article.

Keywords: Social Cognitive Career Theory (SCCT), Career Self-Efficacy, Life Span Theory, Holland’s Theory.

1. INTRODUCTION

Social Cognitive Career Theory (SCCT) was originally introduced by Bandura in 1986 with the name Social Cognitive Theory (Patton, 1999; Lent et al. 1996). In 1970, Albert Bandura introduced SCCT with the name Social Learning Theory (Brown, Brooks and Associates, 1996). Later, in 1977, Bandura introduced self-efficacy that focused on the Behavioral Change Theory which was identified as an important aspect to increase confidence, ability, and trust to self. (Brown et al. 1996).

Beginning in 1980, the Social Cognitive Theory focuses on the self-efficacy development, namely strength, confidence and individual trust that will affect the excellence in his career and life (Scharf, 2006). Social Cognitive Career Theory was also revised and a few changes were made from the Social Cognitive Theory (Bandura, 1986; 1997; 2000; 2003; 2006; 2007). For example, Social Career Cognitive Theory added that experience while learning, genetic factors, and environment also affect career decision making (Patton, 1999).


Furthermore, career self-efficacy also refers to an individual's ability to make consideration, organize and accomplish the desired action to achieve the goal according to skills (Zalizan et al. 2013). According to Mohd Izwan Mahmud et al. (2016), career self-efficacy is an element that can measure career readiness in the career development process and can be increased with a systematic method.

Besides that, career self-efficacy also closely related to individual perception towards self ability that will help control the anxiety in a particular environment (Chiesa et al. 2016). Studies that relate to career self-efficacy include self-efficacy in career decision (Gianakos, 2001), exploration and career plan (Rogers, Creed, and Glendon, 2008), and career choice (Jin, Watkins, and Yuen, 2009; Wang, Jome, Haase and Bruch, 2006). Further, career self-efficacy can also help decrease the problems related to career decisions (Fouda, Cotter, and Kantamneni, 2009). A study on students at Midwestern university found that students’ career self-efficacy increase after joining the career intervention (Fouda et al. 2009). Thus, if the students enroll in the career planning course, it is easier for them to make the career choice, be confident towards the career decision and increase their career development, compared to the students who do not enroll in the course (Reese and Miller, 2006).

A. Theories Related to Career Self-Efficacy

A few theories will be featured in this article to discuss the career self-efficacy aspect, namely Life Span Theory (Super, 1957), Holland’s Theory (1959) and Social Cognitive Career Theory (Bandura, 1986; Lent et al. 1996). However, SCCT will be the theoretical based to explain CSE.
B. Life Span Theory

From the history of the name, Career Development Theory started with ‘Career Development Theory’ in 1953 and changed to ‘Career Development: Self-Concept Theory’ in 1963 (Savickas, 1997). Then, the Super theory was changed to ‘Career Psychology’ in 1971, and later to the latest name, that is Life Span Theory (Savickas, 1997). Super also depends on the Trait and Factor Theory and Super technique conducts counseling sessions with his clients to develop Life Span Theory (Savickas, 1997).

According to Isaacson and Brown (2000), Life Span Theory emphasis on the career development phases, stages and the development of individual career self-concept. Self-concept refers to how an individual sees himself and the situation resulting from the combination of biology characteristics, individual roles in social and evaluation to the reaction of the individual towards other people (Scharf, 2010; 2006). Based on the concept, Super (1971) divides the self-concept into five phases as follows:

<table>
<thead>
<tr>
<th>No.</th>
<th>Development Phase</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Growth phase (Birth until 14 years)</td>
<td>Self-concept starts to develop during the growth phase through influence by family and school. Individual also develops want and clear fantasy, interest, and skills also have the courage to involve in social activities.</td>
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<tr>
<td></td>
<td>Growth Phase has 3 stages, namely:</td>
<td>Need and fantasy are playing their role.</td>
</tr>
<tr>
<td></td>
<td>i) Fantasy stage (5 to 10 years)</td>
<td>Interest becomes important in doing activities and to determine goals for himself. An individual also can identify types of careers, the importance of careers and identify other structures in his society.</td>
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<td></td>
<td>ii) Interest stage (11 to 12 years)</td>
<td>An individual will consider between the want and his ability. An individual can also identify the difference between an individual according to the job.</td>
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<td></td>
<td>iii) Ability stage (13 to 14 years)</td>
<td>An individual explores a lot about career, including self-evaluation, role play, and career exploration and doing part-time during free time. At this stage, an individual has identified and chosen an accurate career.</td>
</tr>
<tr>
<td>2.</td>
<td>Exploration Stage (15 to 24 years)</td>
<td>An individual is concerned about his need, interest, values and considers the available opportunity. The tentative choice is made when career choices are limited and indefinite.</td>
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<tr>
<td></td>
<td>Exploration stage has three phases, namely:</td>
<td>During this phase, an individual starts to find his self-concept, moves from choosing the suggested careers to choose a particular career.</td>
</tr>
<tr>
<td></td>
<td>i) Tentative phase (15 to 17 years)</td>
<td>An individual identifies the accurate career field, chooses a suitable career, starts to get a job or training, completes the industrial training and starts to work.</td>
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<td></td>
<td>ii) Transitional phase (18 to 21 years)</td>
<td></td>
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<td></td>
<td>iii) Trial phase (22 to 24 years)</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Development Phase</td>
<td>Characteristics</td>
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<tr>
<td>3.</td>
<td>Establishment phase (25 to 44 years)</td>
<td>Establishement Stage has two phases, namely: i) Accomplishing trial phase (25 to 30 years) ii) Stable phase</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An individual has a permanent and suitable career. Besides, an individual also tries to secure a permanent position in his career. One or two job trials will occur before finding a stable job until he secures a suitable job. An individual will work hard to stabilize his job, strengthen his career and makes further way to the seniority status.</td>
</tr>
<tr>
<td>4.</td>
<td>Maintenance Stage (45 to 64 years)</td>
<td>Efforts made to improve a career to strengthen position and status. An individual maintains his current self-concept.</td>
</tr>
<tr>
<td>5.</td>
<td>Disengagement Stage (65 years and above)</td>
<td>Decreasing in physical and mental ability, affecting career activities. An individual might be on his pension or becomes an observer.</td>
</tr>
</tbody>
</table>

In conclusion, Super's Career Development Theory is based on the self-concept and is divided into stages of human development according to the particular age, namely growth stage, exploration stage, establishment stage, maintenance stage, and disengagement stage.

**C. Holland’s Theory**

Holland’s Theory was developed by John L. Holland in 1959 and updated in 1966, 1973, 1978, 1985 and 1996 (Holland et al. 1969). In 1966, Holland identified six main categories in the vocational Preference Inventory (VPI), which are Realist (R), Investigative (I), Artistic (A), Social (S), Enterprising (E), and Conventional (C).

Holland also introduced Hexagonal Model that explained the relationship between personality type with job environment in correlation and coefficiently (Holland, 1978; 1985; 1996) as in Fig. 1.2. Hexagonal Model functions to define the degree of personality pattern consistency, environment pattern and degree of congruency between individual and environment (Holland, 1973; 1985; 1996).

Other than that, the Hexagonal Model is also related to the main ideas so that they can be used in dealing with practical and theoretical problems (Holland, 1985; 1996).

**Fig. 1.2. Holland Hexagonal Model (Source from Holland et al. 1969)**

Holland also comes up with types of personalities as in Table 1.2 (Holland, 1985):
<table>
<thead>
<tr>
<th>No</th>
<th>Personality Type</th>
<th>General Characteristics</th>
<th>Personality Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Realistic (R)</td>
<td>Interest in realistic jobs involving tools, machines, and animals that can be controlled by the individual. Has technical skills. Self-perception of having the skills in mechanical and sports.</td>
<td>Anti-social Confirm Honest Genuine Hard-headed Materialistic Natural Loner Not flexible Conscientious</td>
</tr>
<tr>
<td>2.</td>
<td>Investigative (I)</td>
<td>Finding solutions through interest and scientific and mathematical competency. Assuming self as a scholar, an intellect, and lack of leadership skill. Does not like to use machine and tool. Has high value towards science</td>
<td>Analytical Free Rational Careful Introspective Critical Quiet Humble Curious Precise</td>
</tr>
<tr>
<td>3.</td>
<td>Artistic (A)</td>
<td>Interests in work related to art. Assuming self as an expressive, genuine, free, creative, imaginative, intuitive, not conform, does not like rules, has artistic talent, music, activities and writing talent. Gives high value towards aesthetic quality.</td>
<td>Difficult Imaginative Impractical Disorderly Emotional Expressive Idealistic Impulsive Free Introspective Intuitive Influencer Likes to help Responsible Cooperative Idealistic Social Patient Empathy Wise Kind Friendly Warm</td>
</tr>
<tr>
<td>4.</td>
<td>Social (S)</td>
<td>Assuming self as a helping individual understands other people and has the ability to teach. Interest in an environment that encourages individual to be flexible and understand others. Gives high value to social-type activities.</td>
<td>Likes achievement Energetic Likes to travel Popular Caregiving Social Warm</td>
</tr>
<tr>
<td>5.</td>
<td>Enterprising (E)</td>
<td>Interest in managing and influencing other people to achieve personal or organization goal. Assuming self as aggressive, popular, social, confident, motivated, has the ability to speak and lead. Gives high value to economic and political achievement.</td>
<td>Likes achievement Energetic Likes to travel Popular Caregiving Social Warm</td>
</tr>
</tbody>
</table>
In conclusion, Holland Theory is based on Holland Hexagonal Model which comprises six personalities, Realistic (R), Investigative (I), Artistic (A), Social (S), Enterprising (E), and Conventional (C). Holland Theory also explains the relationship between personality type with working environment correlation and coefficiently (Holland, 1996).

D. Social Cognitive Career Theory (SCCT)

Bandura introduced Self-Efficacy Model, (Bandura, 1986) and Social Cognitive Theory Diagram Model (Bandura, 1986). Self-Efficacy Model explains behavior component, personality factor, and environmental factor that is interdependent, whereas Social Cognitive Theory Diagram Model explains the interaction between choice of career with self-efficacy which finally results in achievement and brings the additional self-efficacy development of an individual (Bandura, 1986).

For Self-Efficacy Model, personality factors such as emotion, self-confidence, and thinking will affect the development of skills and behavior practices influenced by the environment (Lent et al. 1996). Environment and social systems influence human behavior through self-psychology mechanisms (Lent et al, 1996).

Based on Fig. 1.3, expectations from actions and outputs refer to the individual expectation on the output from his actions, while trust and confidence efficacy are mediators of behavior and individual’s action (Lent et al. 1996).

For example, output expectation from the action that will be taken by an individual "If I act this way, what will happen?" Further, an example of self-efficacy towards oneself or self-confidence, "Am I able to act like that?" Therefore, self-efficacy refers to self-trust or confidence stage or degree in an individual before doing an action (Lent et al. 1996).

![Fig. 1.3. Self-Efficacy Development Component](image)

Further, Fig. 1.4 shows the relationship between confidence efficacy with the expectation of the action from the action taken. It is called the triadic casual system involving three variables, which are self-efficacy, outcome and individual goal (Lent et al. 1996). From the three variables, the most attention given from the literature review was on self-efficacy (Hackett, 1995; Hackett and Lent, 1992; Locke and Latham, 1990).

![Fig. 1.4. Influence of Self-Efficacy on Behavior](image)

Furthermore, the expected outcome from action means an individual expectation on the outcome of the behavior (Bandura, 1977). Confidence and trust efficacy are the confidence that an individual succeeded in accomplishing an action to create a behavior (Bandura, 1977). However, the expected outcome is different from the confidence and trust efficacy because an individual believes that certain actions will produce an outcome, but if an individual has a high curiosity, whether he can do an activity or not, it will not influence his behavior (Bandura, 1977).

Besides, the expected outcome is individual confidence in effect or outcome in accomplishing a behavior (Lent et al. 1996). Whereas, confidence and trust efficacy is a belief of an individual (Lent et al. 1996). An example of confidence and trust efficacy is "Can I do this?" While an example of an expected outcome is "What will happen if I act this way?" (Lent et al. 1996).

Other than that, an individual also has a particular system that enables him to control his mind, feelings, and actions (Bandura, 1986). In this system, there is one cognitive structure, affective and the abilities to learn, plan alternative strategies, control the behavior abilities and reactions towards self (Bandura, 1986).

Mind functions as the mediator between knowledge and action, make self-considerations, evaluate his experiences and thinking processes (Bandura, 1997). Knowledge, skills, and achievement will be affected and fail if the individuals do not have trust in themselves on their abilities to react (Bandura, 1997).

Furthermore, Social Cognitive Theory Diagram Model is quite complex where it involves interactions between career choice dan self-efficacy, expected outcome, building goals, making choices, outcome and other factors such as academic achievement, gender, race, culture and socioeconomic (Bandura, 1986).
Fig. 1.5 below shows Social Cognitive Theory Diagram Model by Bandura (1986). Bandura (1986) stated that self-efficacy is formed from the interest which is the main factor when an individual wants to do an activity. When there is an interest, they will form a goal for the activity. If an individual does not interested in the activity, he tends to lose interest in the activity (Scharf, 2010).

Next, an individual's interest will influence his tendency to accomplish an activity and will influence his goal related to the activity (Scharf, 2010). Hence, an individual will do action choices to ensure the formed goal is achieved (Scharf, 2010). Then, an individual will do the chosen action until the target goal is achieved or the expected performance achieved (Scharf, 2010). When an achievement has been produced with excellent performance, it will be considered as a learning experience or as a learning process and will add up to an individual new self-efficacy development (Scharf, 2010). The diagram cycle will continue until the last (Scharf, 2010).

Fig. 1.5. Social Cognitive Theory Diagram Model
Source: Scharf (2010)

Next, from the individual development process, Social Cognitive Career Theory explains the Choice Model (Lent et al. 1994). Choice Model describes the individual's background, experience context influence career choice and action choice (Lent et al. 1994). Choice Model can explain individual career action and make career choice as in Fig. 1.6 (Brown and Lent, 1996; Lent et al. 1994; 2000; 2002); in Scharf, 2006). Other than that, Choice Model also explains the nearest context factor to an individual will influence implementation and career achievement that will finally make an individual accomplish the chosen career action (Brown and Lent, 1996; Lent et al. 1994; 2000; 2002); in Scharf, 2006).

Individual factors such as gender, race, ethnic and health status, while individual background factors include socioeconomic status can influence self-efficacy and the expected outcome (Brown and Lent, 1996; Lent et al. 1994; 2000; 2002); in Scharf, 2006). Besides, the individual learning experience can influence self-efficacy formation and the obtainable expected outcome (Brown and Lent (1996); Lent et al. (1994, 2000 and 2002); in Scharf, 2006). Next, career interest formation is obtained through influence from individual factors, background and learning experience that shape two elements, self-efficacy and the expected outcome (Brown and Lent, 1996; Lent et al. 1994; 2000; 2002); in Scharf, 2006).

Meanwhile, after an individual has a career interest, it will motivate him to choose and form the next career interest where the individual will act to think about the choices of actions or behaviors that can bring to the achievement of his choice of career (Brown and Lent, 1996; Lent et al. 1994; 2000; 2002); in Scharf, 2006). As the result, an individual will show the best performance and can accomplish his career actions excellently (Brown and Lent, 1996; Lent et al. 1994; 2000; 2002) in Scharf, 2006).

E. Career Self-Efficacy
According to Bandura (1997; 2003), there are four types of self-efficacy:

(a) Self-regulatory self-efficacy – refers to perseverance and an individual's ability to fight, object, endure, fortitude, strength, persistence to challenges and pressure and able to join the high-risk activities.

(b) Social self-efficacy – explains about confidence and individual ability to build and maintain social relationships, has social skills, firmness, cooperate, tolerant, help each other, communicate and connect with a human.

(c) Academic self-efficacy – explains about confidence and an individual's ability to accomplish an academic responsibility, coursework, manage, organize, plan and control academic activities.

(d) Career self-efficacy – relates to an individual's confidence, trust, ability, and capability to consider, choice, making a decision, planning, take action, accomplish tasks, and involve certain careers or jobs.

Therefore, career self-efficacy is one of the self-efficacy types that leads to an individual's confidence, ability to consider career or jobs related to behavior (Fassinger, 2005; Leong and Brown, 1995). If they have high career self-efficacy, they will work hard with perseverance and give the commitment to complete a task. But if they have low self-efficacy, they will not complete the task perfectly.

There are four sources that can influence an individual’s self-efficacy level, which is self-experience, vicarious...
learning, verbal encouragement and physiology and psychology (Bandura, 1997 and 2003; Lent et al. 1996; Betz and Hackett, 2006).

i) Self-experience – involves experiences of achievements and failures with the behaviors in the past (Bailey, 2002). If an individual always gets low marks in a certain subject, this will cause him to have low self-efficacy, to continue in the field (Maddux, 1995; Swanson and Woitke, 1997). However, if a student excels in completing a technical task in an engineering subject, he will have high self-efficacy in the engineering field (Speight, Rosenthal and Gasteenval, 1995).

ii) Vicarious learning – experiences from other people. Betz and Hackett (2006) stated that students who can see and share from a successful model will have a tendency to influence the same ability and success as the model. According to Brown (1999, 2003), if by observing the behavior of other people who they choose to be a model, the observer believes that they have the ability to do the same thing as the model did.

According to Komarraj et al. (2014), activities that can be done through vicarious learning are an interview with professionals in the field, learn about a career path, and the method of being a successful person at work, industrial training and attending workshops or programs related to career.

iii) Verbal Support and Encouragement – involves support (or no support) to other people through communication-related to behavior. According to Ormrod (1998), if an individual is encouraged, he is able to complete a task successfully, and this will increase his career self-efficacy.

iv) Physiological and psychological – involves the human body in a pressure situation, anxiety, fatigue, scared, pain, curious, muscle strain, stress, nausea, and sweating with panic can significantly affect the self-efficacy level. Pain and scared effect will implicate cognitive, psychology, affective and emotion performance in an individual (Bandura, 1997). According to Bandura, the state that contributes to physiological uncertainty is caused by connections with the individual's environment and emotional reactions or things that touch his feelings.

These main factors will effect the formation of self-efficacy from the confidence degree whether is low or high level and then the formation of the individual behavior act or action (Mohd Sani Ismail, 2011).

In conclusion, Social Cognitive Career Theory was originally introduced by Bandura in 1986 with the name Social Cognitive Theory and then expanded to Social Cognitive Career Theory by Lent et al. in 1996. Social Cognitive Career Theory explains goals, self-efficacy and expected outcomes that influence one another in self-regulatory behavior (Lent et al. 1996).

Next, Social Cognitive Career Theory also explains in detail about career development that can help an individual to achieve career goals (Scharf, 2010). These are a few justifications of choosing Social Cognitive Career Theory as a Career Theory to explain Career Self-Efficacy.

F. Justification of Choosing Social Cognitive Career Theory as Career Theory to Explain Career Self-Efficacy

According to literature reviews, there are a few career theories that are commonly used by most of the previous researchers to explain on individual career aspect. Among the theories are Social Cognitive Career Theory (Bandura, 1977; Lent et al. 1996), Life Span Theory (Super, 1957), and Holland's Theory (Holland, 1959). However, in this study, the researcher has chosen Social Cognitive Career Theory which was introduced by (Bandura, 1977; Lent et al. 1996) as the study's theoretical based to explain career self-efficacy based on a few justifications.

Life Span Theory (1957) is seen as inappropriate to be the theoretical based in this study to explain career self-efficacy variables due to some limitations. For instance, Life Span Theory is seen to emphasis more on self-concept, career maturity and the career value itself (Bandura, 1977), whereas the main aspect studied was career self-efficacy which refers to the level of ability, talent, skills, trust and confidence of an individual towards himself in making consideration to choose his career (Hackett and Betz, 1981; Betz and Hackett, 1986).

Other than that, Life Span Theory (1957) is also incomprehensive making it hard to study overall (Capuzzi and Stauffer, 2005). This actually means that there are parts of the theory that can be explained on themselves and studied separately from other aspects (Capuzzi and Stauffer, 2005). Besides, Super's Career Theory (1957) also explains that men are not suitable to work as clerks, administrative assistants, and office boys when these careers still choose by men. This means that there is a job classification based on gender and this is seen as outdated and not moved with the times.

Next, Holland's Career Choice Theory was not chosen to be the theoretical based in this study because of some limitations. This is because Holland's Career Choice Theory is suitable to explain the relationship between personality types and environment (Holland 1973, 1978 and 1985) where it looks at the congruency between personality types and working environment to influence the job satisfaction and achievement. However, career self-efficacy is one of the most important aspects that should be emphasized for career determination and life path (Ahmad Esa and Azmi Hassan, 2013). Therefore, this study will focus on career self-efficacy that relates to an individual's ability, talent, skill, trust and confidence toward himself in making consideration of his career (Hackett and Betz, 1981; Betz and Hackett, 1986). Holland's Theory also does not emphasis on behavior change process in individual interaction with his environment where the study on the interaction of individual and his working environment is not done analytically and comprehensive (Holland, 1974).

Therefore, Holland suggested that future research emphasis on a behavior change process that covers increasing satisfaction in making career decisions (Holland, 1974).

Besides, Holland's Career Choice Theory also criticized...
for being bias in measuring race and gender (Anderson, Tracey and Rounds 1997; Haverkamp, Collins, and Hansen, 1994) and also Hexagonal Model is seen bias in gender and culture (Hansen et al. 1993; Tinsley, 2000). Furthermore, Holland's Career Choice Theory has also been criticized for not emphasizing the career role in maintaining the working environment (Capuzzi and Stauffer, 2005).

Based on the explanation, the researcher chose the Social Cognitive Career Theory as theoretically based on this study to describe the career self-efficacy variable based on the justifications. Social Cognitive Career Theory has been used by most of the previous researchers who study career intervention on career self-efficacy (Mohd Izwan Mahmud, 2017; Chiesa et al. 2016; Joslyn, 2015; Jasmi, 2014; Komaraju et al. 2014; Smothers, 2012; McWhirter et al. 2000). Other than that, talent impact on self-efficacy and influence on expected outcomes and interest also emphasized in this theory (Lopez et al. 1997).

Besides, some studies that use Social Career Cognitive Theory framework also show that career self-efficacy plays an important role in planning and development of an individual's career (Gushue and Whitson, 2006; Lease, 2006; Lent et al. 2001; Lent et al. 2003; Lent et al. 2005). Other than that, Social Career Cognitive Theory also emphasis on self-efficacy aspect in choosing a career internally and externally (Scharf, 2010; Gushue and Whitson, 2006; Lent et al. 1994, 1996; Lent et al. 2008; and Silvia, 2003).

Further, Social Cognitive Career Theory also emphasis on expected outcome and goal building aspects as variables in academic and career choice (Scharf, 2010; Joslyn, 2015). Goal building is a determinant of the settlement of a task or working hard to achieve target outcome (Bandura, 1986) which is a drive for an individual to achieve his target or ambition in education and career (Lent, 2013).

Next, most of the researchers use Social Cognitive Career Theory as a based theory for self-efficacy variable dan use it to expand the latest Bandura’s theory to better understand career behavior (Lent, 2005; Lent et al. 1994, 2000).

II. CONCLUSION

Based on the extensive elaboration above, it is clear that SCCT (Bandura, 1986; Lent et al. 1996) is a most suitable career theory to explain CSE. After the comparison made between other career theories, it is found that CSE clearly explains in detail about CSE because of the justifications mentioned. Therefore, SCCT is chosen based on the compatibility and advantages it has compared to other career theories.

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