


# Situating Ethical Behavior in the Nomological Network of Job Performance

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## Abstract

**Purpose** Our objective was to generate, define, and evaluate behavioral dimensions of ethical performance at work that are common across United States occupations.

**Design/Methodology/Approach** This project involved three studies. Study 1 involved (a) qualitative review of published literature, professional codes of ethics, and critical incidents of (un)ethical performance and resulted in (b) behavioral dimensions and ethical performance rating scales. The second and third studies used a retranslation methodology to evaluate the ethical performance dimensions from Study 1. The behavioral dimensions were linked to the performance determinants (personal attributes) in Study 3.

**Findings** Study 1 resulted in draft dimension definitions and rating scales for 10 ethical performance dimensions. In Studies 2 and 3, retranslation data provided strong support for 10 behavioral dimensions of ethical performance at work. Results from Study 3 shed light on possible relationships among the performance dimensions based on their underlying performance determinants.

**Implications** Communicating an organization's ethical standards to employees is important because some ethical breakdowns can be attributed to simply failing to recognize an ethical matter (in: DeCremer, Managerial ethics:

Managing the psychology of morality, Routledge, New York, 2011). Definitions of ethical behavior in the workplace provide a tool for researchers, employers, and employees to communicate about ethical situations and a foundation for folding ethics into employee training and performance management.

**Originality/Value** These studies provide a taxonomy of ethical performance at work that generalizes to a diverse array of occupations and industries, and dimensions and rating scales have value for performance management, training/curriculum development, job analysis, predictor development and/or validation, and additional research.

**Keywords** Ethical performance · Job performance · Performance assessment · Work performance · Workplace ethics

## Abbreviations

NBES	National business ethics survey
OCB	Organizational citizenship behavior
CWB	Counterproductive work behavior
KN	Knowledge
SK	Skill
EPRS	Ethical performance rating scale
ICC	Intraclass correlation coefficient

## Introduction

It is in the news all too often. A car manufacturer cheats on engine performance tests. Corporate executives fraudulently conceal large losses. A financial advisor sells stock in nonexistent companies. Such instances of unethical behavior have widespread consequences. Bernard Madoff's \$64.8 billion dollar Ponzi scheme, the largest in American history,

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created a chain reaction forcing organizations to close and causing investors to lose billions of dollars. The Financial Crisis Inquiry Commission report asserted that a chief cause of the 2008 economic crisis was a systematic breakdown in ethics. Similarly, the most recent National Business Ethics Survey (NBES, Ethics Resource Center 2014) found that 41 % of workers report having witnessed unethical or illegal conduct in their workplace. Although this number has been declining over the years, it still represents a major area of concern for organizations as ethical breaches can be accompanied by hefty financial consequences.

The role of behavioral ethics in the workplace is a topic of growing interest and relevance among researchers. Comprehensive literature reviews (e.g., Mayer 2014; O’Fallon and Butterfield 2005; Tenbrunsel and Smith-Crowe 2008; Treviño et al. 2014; Treviño et al. 2006) and meta-analyses (e.g., Kish-Gephart et al. 2010; Martin and Cullen 2006; Mesmer-Magnus and Viswesvaran 2005; Pan and Sparks 2012) published on the topic of behavioral ethics bear testament to its prominence and popularity.

Despite an abundance of ethics-related publications, journals, classes, and debates, there is a relative dearth of literature that attempts to specify the behavioral dimensions of ethical performance in the workplace. In general, the work ethics literature has been dominated by the independent variable; that is, the influence of ethical codes, training programs, climate and culture, individual differences in interpersonal and cognitive processes, and failures in self-regulation (Treviño et al. 2014). The dependent variable has received far less attention. Researchers have largely focused on dependent variables such as opinions, perceptions, and values held by organization members instead of individual ethical job performance itself (Gatewood and Carroll 1991). In recent years, ethical behaviors have been defined for (a) a few occupational groups such as medical students (Schubert et al. 2008), senior managers (Foldes 2006), or leaders (Brown et al. 2005); or for (b) a few specific domains of work, such as scientific work (Helton-Fauth et al. 2003). Kaptein (2008) took a somewhat broader view and specified unethical behaviors for five different categories of stakeholders. Specifications for a general underlying taxonomy (i.e., latent structure) of ethical behaviors in the workplace are needed to provide a foundation for systematic study of ethical performance at work and development of assessment tools.

## Objectives

The objectives of the current effort were twofold. First, we sought to develop a “model” of ethical behavior at work in the United States that places it within the larger context of

individual job performance, as it is modeled in Industrial and Organizational (I–O) Psychology. This entails defining behavioral dimensions of ethical performance that are common across occupations. Our second goal was to develop a set of rating scales that could be used to assess individuals on the ethical performance dimensions.

## Working Definition of Ethical Performance in the Workplace

Traditionally speaking, business ethics have been viewed as actions that are taken or not taken, in the work context, and which are judged as meeting, or not meeting, an ethical standard (Tenbrunsel and Smith-Crowe 2008; Treviño et al. 2014). Such definitions imply that there are value systems (plural) that specify which behaviors are ethical and which are not, and that it may not be an easy designation to make in a given situation. Moreover, there are many contextual features that could influence what is perceived as ethical, or not ethical, at any given time and place.

For many years, researchers assumed that the individual’s intent was an important consideration in determining whether behavior was unethical. Unintentional behaviors could be excused. Recent thinking distinguishes more clearly between ethical behavior and ethical intent. Well-intended behaviors may still be unethical; failing to recognize the ethical implications of a problem may result in ethical intentions but unethical actions (DeCremer 2011; Tenbrunsel and Smith-Crowe 2008; Treviño et al. 2014). For the purpose of this project, we tentatively define unethical behavior as follows:

Unethical behavior at work is behavior that violates a prescribed *norm* that is based on a code of behavior at work that is (a) ascribed to by the relevant organization or professional group, (b) prescribed by relevant regulatory bodies or by statute, or (c) widely endorsed in the society. An ethical violation has at least the potential for doing harm to one or more of the organization’s stakeholders. Among the relevant stakeholders are stockholders, the management, coworkers, customers, clients, and the public good. Unethical behaviors are distinct from ethical intentions. Unethical behaviors can result from (a) lack of awareness that one is facing an ethical problem, (b) ill-considered good intentions, or (c) unethical intentions. The standards by which a prescribed norm is judged to be violated most likely have multiple determinants, such as the national culture, public (i.e., government) policy, and the prevailing value systems of the important stakeholders.

We view ethical behavior as a component of job performance (i.e., a performance requirement for any work role). To this end, we situate ethical performance within the Campbell (2012) model of performance. The Campbell model is intended to synthesize all past and current attempts to model the substantive dimensionality of performance in a work role (see also Campbell et al. 1993; Campbell and Wiernik 2015). This synthesized model puts forth the following principles. First, performance is what people actually do at work for the purpose of helping the organization (even an organization of one) accomplish its goals. Consequently, two questions can be asked about what people do at work: (a) is a particular behavior or action relevant for the organization's goals? and (b) if so, to what degree do the specific actions of an individual contribute to the organization's goals (i.e., how do we measure the individual's contribution to the organization)?

Second, the Campbell (2012) model contends that individual performance is multi-dimensional. Although a covariance matrix for multiple performance measures will typically yield a general factor, this is a separate issue and does not speak to the substantive differences in performance domains. After more than 30 years of research and experience, there exists substantial support for the eight factors that comprise the model. These factors are shown in Fig. 1. Extant literature (see Campbell and Wiernik 2015) also provides a reasonable synthesis of the subfactors of both leadership and management. These are shown in Figs. 2 and 3, respectively. Additionally, the Campbell model easily accommodates Borman and Motowidlo's (1993) popular notion of contextual performance as well as the components of Organizational Citizenship Behavior (OCB).

The third principle of the Campbell (2012) model specifies that individual differences in performance are a function of two sets of determinants: direct and indirect. The direct determinants are (1) current specific job knowledge, (2) current job specific skill, and (3) three volitional choices (euphemistically referred to as "motivation"): (a) the choice to expend effort on a particular activity, (b) the choice of the level of effort, and (c) the choice of how long to persist. They are the determinants that are present and operate in real time "on the job," so to speak. Variance is also accounted for by their interactions. For example, being highly knowledgeable about a particular job requirement could increase the probability of choosing to do it.

In contrast, indirect determinants are all the things that can produce individual differences in the direct determinants (e.g., cognitive ability, personality, training, goal setting, reward preference, self-efficacy, etc.). They can influence performance only by influencing the direct determinants. That is, the direct determinants totally mediate the effects of the indirect determinants.

It is important to identify how ethical performance fits into this existing model of job performance. It is evident that ethical performance does indeed fit the characterization of "actions taken at work." In fact, the business ethics literature often talks about ethical decision-making as a dependent variable.

Further, whether a particular ethical action is relevant for the organization's goal (or not) is most likely a function of more than one value system (e.g., an organization espouses a code of Corporate Social Responsibility and also functions as a profit maximizer). What happens if these value systems disagree? Also, and perhaps to a greater extent for ethical performance than for other dimensions of performance, the value system of the organization and the value system of the individual may be in conflict, which makes assessing the level of ethical performance even more difficult. That is, from whose perspective did the individual perform ethically? Or unethically?

Another issue that warrants attention is whether [as in the Campbell (2012) model] it is more useful to view ethical performance as a subfactor of the counterproductive work behavior (CWB) factor; as a subfactor of the overall management factor; or as a distinct factor in its own right. The most useful specification, we argue, is one that is informed by research beginning with a systematic attempt to specify the content of ethical performance. As stated above, this is one of the primary goals of the current research.

The business ethics literature provides many examples of both the direct and indirect determinants of individual differences in ethical performance. Much of the attention is focused on the indirect determinants of the choice to act ethically, such as philosophical orientation, university training (e.g., courses in business ethics in management schools), personality, ethical efficacy, gender, analysis of decision consequences, etc.). However, the Kohlberg (1969) and Rest (1986) models of moral reasoning also include knowledge (KN) and skill (SK) as direct determinants of ethical decision-making.

The Campbell (2012) model distinguishes determinants of individual differences in performance from influences on the mean of performance for a specific sample of individuals. For example, one of the most important influences on the performance mean these days, at least in the opinion of many people, is technology. Technology only becomes a determinant of individual differences in performance if we assess the individual differences in how well people have learned to use the technology.

If we think of influences on the mean as contextual factors, then the contextual factors most often talked about in the business ethics literature are (a) the code of ethics formally adopted by the organization; (b) the organization's ethical climate (which could be viewed as the translation of the espoused ethical code to the code "in

**Fig. 1** The eight performance factors in the Campbell (2012) Model adapted from “Behavior, performance, and effectiveness in the twentyfirst century,” by J. P. Campbell, 2012, in S. Kozlowski (Ed.), *The Oxford Handbook of Organizational Psychology: Volume 1*. New York, NY: Oxford University Press

**Factor 1—Technical performance.** All jobs or work roles have technical components. Such requirements can vary by substantive area (driving a vehicle versus analyzing data) and by level of complexity or difficulty within area (driving a taxi versus driving a jet liner; tabulating sales frequencies versus modeling institutional investment strategies). By definition, such performance content does not involve interpersonal influence relative to subordinates, superiors, or coworkers, or general management functions.

**Factor 2—Communication.** Refers to the proficiency with which one conveys information that is clear, understandable, and well organized. It is independent of subject-matter expertise. The two major subfactors would be oral versus written communication.

**Factor 3—Initiative, persistence, and effort.** To conform to the definition of performance used here, it must be composed of substantive observable actions. Consequently, it is typically specified in such terms as working extra hours, voluntarily taking on additional tasks, and working under extreme or adverse conditions.

**Factor 4—Counterproductive work behavior (CWB).** The specifications generally circumscribe actions that are intentional, that violate or deviate from prescribed norms, and that have a negative effect on the individual’s contribution to the goals of the unit or organization. There seems to be general agreement that there are two major subfactors distinguished by the deviant behaviors directed at the organization (theft, sabotage, falsifying information, malingering) and behavior directed at individuals, including the self (e.g., physical attacks, verbal abuse, sexual harassment, drug and alcohol abuse). Although not yet fully substantiated by research, it seems reasonable to also expect an approach/avoidance, or moving toward versus moving away, distinction for both organizational deviance and individual deviance. That is, the CWBs dealing with organizational deviance seems to divide between aggressively destroying or misusing resources versus avoiding or withdrawing from the responsibilities of the work role. Similarly, CWBs directed at individuals seem to divide between aggressive actions that are directed at other people and destructive actions directed at the self, such as alcohol and drug abuse, and neglect of safety precautions.

**Factor 5—Supervisory, manager, executive (i.e., hierarchical) leadership.** This factor refers to leadership (as interpersonal influence) in a hierarchical relationship and the substantive content is most parsimoniously described by the six leadership sub factors in Figure 2. The six sub factors are meant to circumscribe hierarchical leadership performance at all organizational levels. However, the relative emphasis may change at higher organizational levels and the specific actions within each subfactor may also receive differential emphasis.

**Factor 6—Management performance (hierarchical).** Within a hierarchical organization, this factor includes those actions that deal with obtaining, preserving, and allocating the organization’s resources to best achieve its goals. The major subfactors of management performance are given in Figure 3. As it was for the components of leadership, there may be considerably different emphases on the management performance subfactors across work roles, depending on the context or situational changes. The model does not imply that the management performance requirements of a particular position or work role are static and cannot change.

**Factor 7—Peer/team member leadership performance.** The content of this factor is parallel to the actions that comprise hierarchical leadership. The defining characteristic is that these actions are in the context of peer or team-member interrelationships; and the peer/team relationships in question can be at any organizational level (e.g., production teams versus management teams).

**Factor 8—Team member/peer management performance.** A defining characteristic of the high performance work team is that team members perform many of the management functions shown in Figure 3, such as planning and problem solving, determining within-team coordination requirements and workload balance, and monitoring team performance. In addition, representing the unit or organization to external stakeholders and exhibiting commitment and compliance to the policies and procedures of the organization are critical performance factors at any organizational level. Consequently, to a greater extent than most researchers realize or acknowledge, there are important elements of management performance in the peer or team context as well as in the hierarchical setting.

**Fig. 2** Components of leadership performance adapted from “The modeling and assessment of performance at work,” by Campbell and Wiernik 2015, *Annual Review of Organizational Psychology and Organizational Behavior*, 2, 47–74

1. **Consideration, Support, Person-Centered:** Providing recognition and encouragement, being supportive when under stress, giving constructive feedback, helping others with difficult tasks, building networks with and among others.
2. **Initiating Structure, Guiding, Directing:** Providing task assignments, explaining work methods, clarifying work roles, providing tools, critical knowledge, and technical support.
3. **Goal Emphasis:** Encouraging enthusiasm and commitment for the group/organization goals, emphasizing the important missions to be accomplished.
4. **Empowerment, Facilitation:** Delegating authority and responsibilities to others, encouraging participation, allowing discretion in decision making.
5. **Training, Coaching:** One-on-one coaching and instruction regarding how to accomplish job tasks, how to interact with other people, and how to deal with obstacles and constraints.
6. **Serving as a Model:** Models appropriate behavior regarding interacting with others, acting unselfishly, working under adverse conditions, reacting to crisis or stress, working to achieve goals, showing confidence and enthusiasm, and exhibiting principled and ethical behavior.

**Fig. 3** Components of Management Performance adapted from “The modeling and assessment of performance at work,” by Campbell and Wiernik 2015, *Annual Review of Organizational Psychology and Organizational Behavior*, 2, 47–74

1. **Decision Making, Problem Solving, and Strategic Innovation:** Making sound and timely decisions about major goals and strategies. Includes gathering information from both inside and outside the organization, staying connected to important information sources, forecasting future trends and formulating strategic and innovative goals to take advantage of them.
2. **Goal Setting, Planning, Organizing, and Budgeting:** Formulating operative goals; determining how to use personnel and resources (financial, technical, logistical) to accomplish goals; anticipating potential problems; estimating costs.
3. **Coordination:** Actively coordinating the work of two or more units, or the work of several work groups within a unit. Scheduling operations. Includes negotiating and cooperating with other units.
4. **Monitoring Unit Effectiveness:** Evaluating progress and effectiveness of units against goals: monitoring costs and resource consumption.
5. **External Representation:** Representing the organization to those not in the organization (e.g., customers, clients, government agencies, nongovernment organizations, the “public”); maintaining a positive organizational image: serving the community; answering questions and complaints from outside the organization.
6. **Staffing:** Procuring and providing for the development of human resources. Not one-on-one coaching, training, or guidance; but providing the human resources the organization or unit needs.
7. **Administration:** Performing day-to-day administrative tasks, keeping accurate records, documenting actions. Analyzing routine information, and making information available in a timely manner.
8. **Commitment and Compliance:** Compliance with the policies, procedures, rules, and regulations of the organization. Full commitment to orders and directives, together with loyal constructive criticism of organizational policies and actions.

use”); (c) ethical leadership (which could be viewed as a major component of the “climate”); (d) prevailing norms and culture (some people distinguish these from climate); and (e) the “moral intensity” of the ethical decision-making situation, which might be loosely defined as the

prevailing situational pressure to act, either ethically or unethically (see Treviño et al. 2014).

As is true of other performance factors, individual differences are also a function of the interactions among determinants (e.g., the greater one’s KN and SK, the higher



or lower, is the probability of making a particular choice), or between individual differences and features of the context; for example, the interaction of the individual's value system with the organizational ethical climate; or the interaction between personality and moral intensity.

Individual ethical performance must also be distinguished from its consequences, or outcomes. That is, what is the effect of high or low ethical performance on important outcomes such as sales, the organization's reputation, or the morale of the work team? It is axiomatic that such outcomes have other determinants as well, in addition to individual ethical performance.

## Study 1: Identification of Performance Dimensions and Development of Initial EPRS

### Purpose

The purposes of Study 1 were to (a) identify a set of performance dimensions capturing (un)ethical behavior at work and (b) develop ethical performance rating scales (EPRS) to accompany those dimensions.

### Method

Study 1 involved qualitative analysis of four different types of information to establish a dimension structure that could be evaluated in Study 2. Qualitative methods are commonly used in the early stages of instrument development (e.g., Mallard and Lance 1998) or taxonomy definition (e.g., Flanagan 1954). We content-analyzed four distinct types of information to develop performance dimensions and scales: (a) the published literature on ethical behavior, (b) professional codes of ethics from a sample of occupations, which was the data source for Kaptein (2008), (c) critical incidents of ethical performance from a large government organization, and (d) behavioral items from ethics surveys.

### Literature Review

Reviewing literature on ethical performance is a monumental task. Initially, the review spanned a variety of disciplines (e.g., philosophy, sociology, anthropology, etc.). However, given the focus, context, and intended purpose of the present research project, the decision was ultimately made to narrow the search to applied psychology and business journals. The authors searched the abstracts and titles of published articles in peer reviewed journals using the Web of Science and PsycINFO databases for keywords such as *ethics*, *ethical*, *ethical performance*, *ethical*

*behavior*, and *ethical decision-making*. The keyword searches identified a variety of publications from journals including the *Journal of Applied Psychology*, *Academy of Management Review*, and *Journal of Business Ethics*, among others.<sup>1</sup> The *Journal of Business Ethics*, in particular, was a very useful resource. We also examined programs for two years of the annual conference of the Society for Industrial and Organizational Psychology (SIOP) and obtained relevant conference papers.

After gathering the relevant citations, the authors began to read and review the full text manuscripts and compile this information into summaries. Specifically, the initial investigative efforts were directed toward achieving three goals: (1) identifying the seminal models, conceptual treatments, and empirical works related to ethical behavior, ethical decision-making, and/or ethical performance; (2) compiling previously researched dimensions/variables relevant to the study of ethics and ethical behaviors; and (3) constructing a theoretically and practically meaningful definition of ethical performance. The final results of the literature review process thus served to provide a relatively comprehensive foundation from which to base subsequent taxonomic and model development activities.

Several behavioral dimensions were evident in the literature. The most common types of behaviors emerging from the literature were things such as truthfulness (vs. lying), showing respect (or disrespect) for others, and obeying the law (Broome et al. 2005; Gaumnitz and Lere 2002; Kaptein 2010; Stevens 2001; Vitell et al. 2000). These are also components of counterproductive work behavior (Spector et al. 2006). The organizational justice literature (Colquitt, 2001) also suggests a "fair treatment," or procedural justice, dimension, having to do with fair treatment of coworkers and subordinates. A dimension having to do with avoiding being coercive was supported by the ethical leadership (Brown and Treviño 2006; Treviño et al. 2014) and toxic leadership (Lipman-Blumen 2004; Kellerman 2004) literatures.

### Review of Professional Codes of Ethics

The Center for the Study of Ethics in the Professions at the Illinois Institute of Technology (<http://ethics.iit.edu/>)

<sup>1</sup> We reviewed articles from the following journals: Accountability in Research: Policies and Quality Assurance, and American Psychologist; Business Ethics: A European Review, Business Ethics Quarterly, Canadian Psychology, Ethics & Behavior, European Journal of Personality, Group & Organizational Management, Journal of Applied Communication Research, Journal of Educational Psychology, Journal of Management, Journal of Organizational Behavior, Journal of Personality and Social Psychology, Journal of Personnel Psychology, Leadership Quarterly, Medical Teacher, Organizational Dynamics, Organization Science, Personality and Individual Differences, and Western Journal of Nursing Research.

maintains an extensive online collection of codes of ethics for professional societies, corporations, government, and academic institutions. At the time of our search, the Center had linkages to approximately 720 ethical codes for 26 different professional categories. We sampled approximately 10 % of the codes for each professional category. So, for example, the first professional category was “Agriculture.” There were nine links under this category; one was reviewed. For the two categories with the largest number of links, “Health Care,” and “Other,” we reviewed 10 and 11 links, respectively (see Table 1). In choosing a single ethics code from a list of many, we tried to select the code with the broadest base (e.g., chose The American Veterinary Medicine Association’s ethics code instead of Cavalier King Charles Spaniel Club of Canada’s code). Also, where relevant, we used English language sites and tended toward American- or International-based ethics codes (vs. codes from a specific country). In the cases where a specific organization had more than one ethics code, because they were updated yearly, we chose the most recent update.

As we reviewed ethics codes, we analyzed the content and extracted behavioral statements from codes to identify universal concepts appearing across professions, disciplines, and organizations. Initially, we categorized behavioral statements into 26 concepts (e.g., honesty, impartiality, transparency, and openness). We discussed the concepts and grouped similar ones together drawing on our own knowledge of ethics literature. This process resulted in the following nine preliminary dimensions:

1. Does not knowingly mislead clients, coworkers, supervisors, management, or customers when offering advice or consultation.
2. Accurately reports product/service quality data, use of financial resources, effort levels, or performance outcomes.
3. Overtly acknowledges potential conflicts of interest that involve personal gain versus achieving organizational, professional, or public goals.
4. Gives credit to the work of others and does not maliciously harm the reputation, work, or performance of others.

**Table 1** Number of ethical codes reviewed by professional category

Professional category	Number of ethics codes	Number of codes reviewed
Agriculture	9	1
Animal breeding and care	22	2
Architecture, art, and design	12	1
Business	52	5
Communications	9	1
Computer and information science	46	5
Construction trades	11	1
Education and academia	48	6
Engineering	41	5
Finance	21	2
Fraternal social organizations	4	1
Government and military	38	4
Health care	87	10
Industrial	26	2
Law and legal	18	1
Management	22	2
Marketing	8	1
Media	51	5
Mental health/counseling	11	1
Other professions	94	11
Real estate	5	1
Religion	15	1
Science	43	5
Service organizations	10	1
Sports and athletics	7	1
Travel and transportation	10	1
Total	720	77

5. Maintains appropriate confidentiality regarding client, customer, coworker, and organizational information.
6. Acts in accordance with the goals, values, and ethics of own occupation/profession and of the organization.
7. Does not violate federal, state, or local laws.
8. Reports unlawful behavior, maliciousness, and harmful malfeasance to the appropriate authority.
9. Does not obtain unfair advantage via nepotism, insider information, or violating the intellectual and/or property rights of others.

### Critical Incident Sort

To evaluate the preliminary dimensions, we conducted two rounds of critical incident sorting. We had access to ethics-related critical incidents collected from a large government organization. We conducted two iterations of critical incident sorts. In the first iteration, 60 critical incidents were randomly selected. Four PhD-level research staff (“sorters”) participated in a sorting task. The incidents were write-in comments from a survey and had not been prescreened to ensure they had ethics-related content. Sorters were asked to make a yes/no decision as to whether the behavior in the incident was related to ethics according to a draft version of our definition of (un)ethical behavior provided earlier in this article. Forty-nine of the 60 incidents were deemed ethical by at least three of the four staffers. For critical incidents including ethics-related behaviors, sorters were asked to identify the most relevant of the nine dimensions by assigning a “1.” If other dimensions were also thought to be relevant, sorters were told to assign a “2” or a “3” according to the degree of relevance. Sorters were also asked to provide written comments about the categorizations. Thirty-nine of the 49 incidents with ethical content were categorized consistently across sorters (i.e., received either a “1” or a “2” from at least 3 sorters). The sorters discussed the ratings to reach consensus on the status of incidents that were not categorized consistently or tended to fall into two categories. As a result of this process, dimension definitions were revised. The first two dimensions were not well-differentiated and were merged into a broader truthfulness dimension; coercion, which was loosely associated with dimension #3, was separated out to form a dimension of its own. In the second iteration, another 60 critical incidents were sorted by the same four research staff. Fifty of the 60 incidents were rated as having ethical content, and 38 of the 50 incidents were consistently categorized into one dimension (using the criteria described for the first sort). We discussed the content of the incidents that were inconsistently and consistently sorted. Based on the discussion we decided to merge dimensions #6 and #7

above, both of which have to do with abiding by organizational or societal rules. We split #4 into three categories: (a) giving credit to others for their work, (b) maliciously harming others, and (c) harassing others. Ten performance dimensions resulted from this effort: Truthfulness, Full Disclosure, Intellectual Property, Confidentiality, Unfair Treatment, Respect for Others, Harassment, Whistle-Blowing, Abuse of Power, and Lawfulness.

### Dimension Review

As a check on the dimension structure, we identified several published surveys (Broome et al. 2005; Gaumnitz and Lere 2002; Kaptein 2010; Stevens 2001; Vitell et al. 2000) and one doctoral dissertation (Foldes 2006) containing behavioral statements about ethics. Two of the team members sorted those statements into the 10 existing dimensions accompanied by definitions. No additional changes were made to the dimension definitions. Definitions of the 10 dimensions at the end of Study 1 appear in Fig. 4.

### Development of Behaviorally Anchored Rating Scales (BARS) for the EPRS Dimensions

We drafted anchors for behaviorally anchored rating scales by extracting content from the critical incidents and behavioral survey items sorted into each of the 10 dimensions. Within each dimension, we wrote anchors to reflect behaviors at different levels of ethicality. We chose a four-point rating format for the scales (1 = Clearly Unethical, 2 = Unethical, 3 = Ethical, and 4 = Clearly Ethical). Scaling research has recently been critical of scales that have a mid-point [i.e., a neither ethical nor unethical point in the middle (Stark et al. 2006)]. The mid-point in behavioral scales is often defined by double-barreled statements “Usually arrives at work on time but is occasionally late.” This would be particularly problematic with ethical performance rating scales. We omitted a mid-point on this scale to force raters to choose whether the ratee’s behavior tends to be ethical or unethical.

### Summary

A review of the research literature, examination of a sample of existing ethical codes, and critical incident sorting exercises culminated in 10 dimensions of ethical performance in the workplace. These dimensions provide a foundation for future ethics research, and a working taxonomy that can be used to describe ethical behavior. Some or all of the rating scales can be used to evaluate employee or supervisor performance.



**Fig. 4** Definitions of ethical performance dimensions at the end of Study 1

<p><b>A. Truthfulness.</b> Does not knowingly mislead clients, coworkers, supervisors, management, or customers when offering advice or consultation or reporting information. This factor refers specifically to providing advice or information the individual <u>knows</u> to be wrong or inaccurate, as regards such things as product/service quality data, use of financial resources, effort levels, and performance outcomes.</p>
<p><b>B. Full Disclosure.</b> Overtly acknowledges potential conflicts of interest that involve personal gain versus achieving organizational, professional, or public goals. The individual must actually be aware there is such a conflict and that it has ethical or legal implications, and acknowledge it publically.</p>
<p><b>C. Intellectual Property.</b> Does not violate the intellectual property rights of others. This includes plagiarism, taking credit for what others have done, or stealing ideas, plans, patents, etc.</p>
<p><b>D. Confidentiality.</b> Maintains appropriate confidentiality regarding client, customer, coworker, organizational information. What is confidential must be specified by the organization's ethical code, by its contractual obligations, or by relevant civil or criminal law.</p>
<p><b>E. Unfair Treatment.</b> Does not provide an unfair advantage to self or others via nepotism, insider information, or granting special favors that disadvantage others. This refers to an unfair advantage that advances the remuneration, performance evaluation, or job advancement of the individual, or of friends and family, at the expense of other stakeholders.</p>
<p><b>F. Respect for Others.</b> Does not maliciously (i.e., by intent) harm the reputation, work, or performance.</p>
<p><b>G. Harassment.</b> Does not subject others to physical or psychological harassment. This dimension includes bullying based on gender, nationality, ethnicity, religion, or sexual preference/identification.</p>
<p><b>H. Whistle-blowing.</b> Reports maliciousness, harmful, or unlawful behavior to the appropriate authority. In essence, this is the whistleblower obligation. The behavior reported must be a violation of public law, or must have serious negative consequences for the goals of the organization.</p>
<p><b>I. Abuse of Power.</b> In the context of a power differential, that could be formal or informal, does not coerce others into doing something unethical or unlawful, including coercing whistleblowers to remain silent.</p>
<p><b>J. Lawfulness.</b> Does not violate federal, state, or local laws, policies or contractual arrangements (this assumes the policies/contractual elements are not themselves fraudulent).</p>

## Study 2: EPRS Retranslation Study

### Purpose

The purpose of Study 2 was to conduct a retranslation study (Smith and Kendall 1963) of a new set of ethical performance episodes, with the goal of further validating the dimension structure established in the development of the EPRS in Study 1.

### Method

To accomplish this objective, we asked graduate students who had not participated in the development of the EPRS to sort behaviors from ethical vignettes into the 10

dimensions and use the EPRS to rate the level of ethicality of the performance behaviors of characters in the vignettes. This allowed us to evaluate the EPRS without having to obtain supervisor ratings in a work setting, where the incidence of unethical behavior might be low. In Study 1, we relied on a review and content analysis of professional codes of ethics and critical incidents to develop the initial version of the EPRS. The incorporation of a new and third type of stimulus in Study 2 (i.e., vignettes describing ethical or unethical behavior) provides an additional, and informative, approach to scale development. Using vignettes also allowed us to ensure that different dimensions and levels of ethicality would be represented, and facilitated higher quality data from respondents than are possible from simple questions (Alexander and Becker 1978).

## Identifying and Editing Vignettes

To build the retranslation survey, we first identified journal articles featuring ethical vignettes or situation-based stimuli using keyword searches. During development of the EPRS, we learned that the *Journal of Business Ethics* frequently published ethical vignettes, and research assistants reviewed every article published in this journal for the last 10 years to identify and extract vignettes.

We then placed all of the extracted vignettes into a single centralized document so that the content and structure of the vignettes could be reviewed and compared. We removed duplicate vignettes, or those that exhibited redundancies (i.e., oftentimes articles featured vignettes from a prior article, editing or revising the scenarios, characters, or context based on idiosyncratic research goals). We edited the wording of the vignettes to make them all gender neutral (i.e., changed proper nouns to “Employee X,” “Supervisor,” “Coworker,” etc.) as well as to adjust the language structure to make each vignette more concise and of similar length (i.e., around 2–4 sentences). This process resulted in retaining approximately 125 vignettes.

## Adding Items

We wrote one to four items that followed each vignette. Items asked respondents to rate the behavior of one or more characters in the vignette (e.g., “Rate the Supervisor’s behavior,” “Rate Employee X’s behavior”). Two example vignettes with their items appear in Fig. 5.

## Assigning Items to Dimensions

We wanted to ensure that at least some items representing each of the 10 dimensions were included in the retranslation survey, and that the items represented a range of ethicality. With that goal in mind, two of the authors independently (a) sorted a sample of 62 items accompanying a set of 25 vignettes into the 10 ethical performance dimensions and (b) rated the ethicality of the performance behavior represented by these items. We compared the dimensions to which we each assigned an item, as well as our ethicality ratings, and then discussed discrepancies to reach consensus. One author sorted and rated the remaining items based on decision rules established during this consensus discussion.

The goal of this activity was to generate a rough preliminary categorization to ensure that all of the dimensions were represented and that no single dimension was grossly over or underrepresented. Some of the ethical performance dimensions are more or less narrow in scope than others, and thus, the number of items per dimension varied. For

example, Harassment was a very narrow dimension. Multiple items about harassment would have been redundant, and we did not want to make our respondents read variants on the same vignette repeatedly; therefore, we included only a few vignettes about Harassment. In contrast, Truthfulness was a very broad dimension with many different vignettes. It needed to be more heavily represented in the survey. As needed, we authored new vignettes with accompanying items for dimensions that exhibited lower content coverage.

## Assigning Vignettes to Survey Forms

The prior steps resulted in retaining 73 vignettes accompanied by their respective items (146 items in total). To make the retranslation rating task more manageable (and not exhaust participants), we divided the vignettes into two retranslation survey forms. We randomly assigned the vignettes across the forms and then compared the number of items for each dimension on the two forms. We shifted some items around to ensure that all 10 dimensions received similar coverage across the two forms. We also identified highly similar items (i.e., items featuring similar content) and either split them across the two forms or moved them further apart from one another on the same form. In total, Form A had 37 vignettes (73 items) and Form B had 36 vignettes (73 items).

## Retranslation Survey Instructions

Retranslation participants were asked to carefully read each vignette and the accompanying items and then make two judgments. First, they were asked to identify which of the 10 dimensions of ethical performance was most relevant to each item accompanying the vignettes. If they felt numerous dimensions applied, they were instructed to select the single dimension that was *most* relevant. If they felt none of the dimensions applied to a given item, they could indicate this as well by sorting the item into the “K. None” category. Second, participants were asked to indicate the ethicality of the character’s behavior described in the item using the four-point EPRS scale for the identified dimension. An example of one EPRS appears in Fig. 6.

## Sample

Retranslation study participants were 21 (Form A  $N = 11$ , Form B  $N = 10$ ) students from two industrial–organizational psychology doctoral programs in the U.S., one at a large southeastern university and one at a large midwestern university. Approximately 81 % of participants held a bachelor’s degree while approximately 19 % held a master’s degree.

**Fig. 5** Two vignettes with items

1001. A large retail chain is developing a new store in a county that has a restriction on the total square footage allowed for buildings. The retail chain president is considering a building a plan that would dodge this restriction by building two separate smaller stores.

- a) The president decides to move forward with the building of the two smaller stores.

Rate the president's behavior.

- b) The president decides to build one store that complies with the square footage restriction. Rate the president's behavior.

2001. Auditor X is a highly active member of the FreedomRings political party.

- a) Auditor X accepts an engagement to audit the books of a FreedomRings political party candidate. Rate the Auditor's behavior.

- b) Auditor X declines an engagement to audit the books of a FreedomRings political party candidate. Rate the Auditor's behavior.

**Fig. 6** Sample EPRS for one dimension

**I. Abuse of Power.** In the context of a power differential, that could be formal or informal, does not coerce others into doing something unethical or unlawful, including coercing whistleblowers to remain silent.

*Example Behaviors:*

- Puts pressure on others to do something that is illegal or unethical.
- Takes advantage own position or authority for personal gain.
- Uses position power to retaliate against a subordinate.
- Encourages subordinates to do the right thing.

Clearly Unethical 1	Unethical 2	Ethical 3	Clearly Ethical 4
Expresses own views or preferences in a way that makes others feel pressured to perform unethically or unlawfully.	Gently exerts some degree of implicit pressure on others to act unethically.	Never acts in an explicitly coercive way toward others.	Is sensitive to the notion that one's own position, authority, or desires might make others feel pressured to do something unethical, and intentionally avoids imposing own will on others.

## Results

The primary objective of the retranslation study was to examine the extent to which the dimension structure of ethical performance held up based on a review and sorting of a set of items associated with various vignettes by an independent sample of raters. In general, we found strong support for the 10-dimension structure. We also asked raters to assess the ethicality of the behavior reflected in each item. We found that raters were able to rate the level of ethicality reliably.

### Dimension Sorting

Overall, results of the sorting task indicated that most raters agreed upon the classification of most of the items (see Table 2). In total, 83 % ( $k = 121$ ) of the items were sorted into the same dimension by at least 50 % of the raters, and 56 % ( $k = 80$ ) of the items were sorted into the same dimension by 66 % or more of the raters. Seventeen percent ( $k = 25$ ) of the items exhibited no majority dimension classification.

Taking a closer look at the dimensions that demonstrated less clean sorting across raters, it was evident that raters had the most difficulty with the following dimensions: F. Defamation of Others, J. Rule-Abiding, and C. Intellectual Property. Dimension F was originally named “Respect for Others.” Some of the items intended for it were categorized into other dimensions also having to do with treatment of other people, such as dimension E. Unfair Treatment. Thus, we determined that the dimension title was too broad and relabeled it “Defamation of Others” to more accurately describe the content of the dimension.

The original title of dimension J. Rule-Abiding was “Lawfulness” which seemed to be too narrow to capture the content domain, and raters mentioned having difficulty classifying vignettes to this dimension without knowing the actual relevant legal precedents. Thus, we broadened this dimension’s title to “Rule Abiding” to also include infractions of policies or contractual arrangements (that may or may not be legally binding).

Dimensions C. Intellectual Property and D. Confidentiality also appeared to cause some confusion, with C items sometimes categorized into D and vice versa. We attempted to remedy this by revising the dimension definition to clarify that the Intellectual Property dimension refers to *stealing* ideas, plans, etc. while Confidentiality refers to *divulging* confidential information. As noted, G. Workplace Bullying (formerly Harassment) is a relatively narrow dimension. The old title “Harassment” had a legal connotation that may have led respondents to only use the dimension if the behavior was illegal. We changed the title to Workplace Bullying to cover a wider range of situations that might occur in the workplace. The final dimension titles and definitions for each of the ethical performance dimensions appear in Fig. 7.

### Ethicality Ratings

In general, the ethicality ratings suggested that raters were able to make judgments regarding the ethicality of each item and that they used the full range of the ethicality rating scale to do so. The mean ethicality ratings for the items ranged from 1 to 4. The grand mean ethicality rating across all elements was 2.21. Standard deviations ranged from 0 to 1.63, and larger standard deviations naturally

**Table 2** Number of items categorized into each dimension

Dimension	Number intended for dimension	Number of items receiving		Percent categorized as intended
		≥66 % agreement	50–66 % agreement	
A. Truthfulness	40	23	6	73
B. Conflict of interest	20	14	3	85
C. Intellectual property	10	4	0	40
D. Confidentiality	6	7	1	100
E. Unfair treatment	12	8	6	100
F. Defamation of others	12	2	4	50
G. Workplace bullying	2	0	2	100
H. Whistle-blowing	16	10	2	75
I. Abuse of power	6	4	4	100
J. Rule-abiding	22	8	7	68
K. None	0	0	6	–
Across dimensions	146	80	41	83

tended to be associated with ethicality ratings in the middle of the scale. Table 3 presents a more detailed summary of the distribution of mean ethicality ratings across items. The ethicality judgments were highly reliable as shown in Table 4. The mean correlations between respondents' ethicality ratings were .787 and .786 for Forms A and B, respectively. The Intraclass Correlation Coefficients (ICCs) were .975 (Form A) and .972 (Form B).

### Study 3: EPRS Dimension Review

#### Purpose

The purposes of Study 3 were to (a) evaluate the effect of changes in the dimension titles and definitions and

(b) capture our own hypotheses about relationships among performance dimensions based on their underlying performance determinants (i.e., knowledge, skill, ability, and other characteristics; KSAOs).

#### Method

##### Dimension Changes

To evaluate the effect of changes in the dimension titles and definitions, we asked another 14 graduate students from 6 graduate programs in Industrial-Organizational Psychology to sort the vignette items into the revised dimensions. None of the participants had participated in Study 2.

**Fig. 7** Definitions of ethical performance dimensions at the end of Study 2

<b>A. Truthfulness.</b> Does not knowingly mislead clients, coworkers, supervisors, management, or customers when offering advice or consultation. This factor refers specifically to providing advice or information the individual <u>knows</u> to be wrong or inaccurate, as regards such things as product/service quality data, use of financial resources, effort levels, and performance outcomes.
<b>B. Conflict of Interest (formerly Full Disclosure).</b> Avoids or overtly acknowledges potential conflicts of interest—situations that involve personal gain versus achieving organizational, professional, or public goals. The individual must actually be aware there is such a conflict and that it has ethical or legal implications.
<b>C. Intellectual Property.</b> Does not violate the intellectual property rights of others. This includes plagiarism, taking credit for what others have done, or stealing ideas, plans, patents, etc.
<b>D. Confidentiality.</b> Maintains appropriate confidentiality regarding client, customer, coworker, organizational information. What is confidential must be specified by the organization's ethical code, by its contractual obligations, or by relevant civil or criminal law. This dimension is similar to <b>C</b> . <b>Intellectual Property.</b> Stealing ideas or product secrets, violating intellectual property rights, should be categorized there. Divulging other types of information about costs, salaries, and organizational strategies is a breach of confidentiality.
<b>E. Unfair Treatment.</b> Does not provide an unfair advantage to self or others via nepotism, insider information, or granting special favors that disadvantage others. This refers to an unfair advantage that advances the remuneration, performance evaluation, or job advancement of the individual, or of friends and family, at the expense of other stakeholders.
<b>F. Defamation of Others (formerly Respect for Others).</b> Does not maliciously (i.e., by intent) harm the reputation, work, or performance of others.
<b>G. Workplace Bullying (formerly Harassment).</b> Does not subject others to physical or psychological harassment. This dimension includes bullying based on gender, nationality, ethnicity, religion, or sexual preference/identification as well as bullying for other personal reasons.
<b>H. Whistle-blowing.</b> Reports maliciousness, harmful, or unlawful behavior to the appropriate authority.
<b>I. Abuse of Power.</b> Uses own position power to coerce others into doing something unethical or unlawful or retaliate against whistleblowers. Abuse of power is typically relevant to supervisory positions.
<b>J. Rule Abiding (formerly Lawfulness).</b> Does not violate federal, state, or local laws, policies or contractual arrangements (this assumes the policies/contractual elements are not themselves fraudulent).



**Table 3** Distribution of mean ethicality ratings

	Mean ethicality					
	1.0–1.49	1.5–1.99	2.00–2.49	2.5–2.99	3.0–3.49	3.5–4.0
No. of items	57	28	8	4	8	41
Average SD	.41	.62	.93	1.00	.92	.38
SD Range	0–.93	.32–1.03	.53–1.21	.67–1.30	.52–1.63	0–.95

**Table 4** Interrater agreement on ethicality ratings

Form	<i>n</i>	<i>k</i>	Mean <i>r</i>	ICC
A	11	73	.787	.975
B	10	73	.786	.972

## Performance Determinants

We assembled a KSAO list comprising (a) three knowledges—State and Federal Laws, Professional Standards, and Organizational Policies— (b) general mental ability (GMA), and (c) the 30 facets of the International Personality Item Pool's (IPIP) version of the NEO-PI-R ([http://ipip.ori.org/newNEO\\_FacetsTable.htm](http://ipip.ori.org/newNEO_FacetsTable.htm); Johnson 2014). IPIP NEO-PI-R has six facets for each Big Five construct. Four research staff rated the extent to which each knowledge, GMA, or personality facet was likely to predict performance in each EPRS dimension using a 3-point rating scale (0 = not at all likely, 1 = somewhat likely, and 2 = very likely).

## Results

### Dimension Changes

As shown in Table 5, Study 3 results reinforced Study 2 results. Seventy-eight of the 114 items categorized in a dimension by at least 50 % of Study 2 participants were categorized in that same dimension by at least 50 % of Study 3 participants (i.e., 68 % of the items). Another 21 items received 41–50 % agreement in Study 2 (18 %). An additional 19 items, which were not reliably retranslated in Study 2, were reliably retranslated in Study 3.

Nine items that had been reliably retranslated in Study 2 received 50 % or more agreement for a different dimension in Study 3. Seven of those 9 items moved to categories for which they had high endorsement in Study 2, but less than 50 % endorsement. For example, the four Rule-Abiding items that moved to Truthfulness had received 30–36 % endorsement for Truthfulness in Study 2. Two items moved from Conflict of Interest to Rule-Abiding. Those items involve employees accepting gifts from salespersons which could be considered both Conflict of Interest and a failure to follow the rules. The Rule-Abiding dimension is broader

than most dimensions and can be interpreted, at its broadest, as subsuming many other dimensions.

In all, these results suggest that the changes we made to the dimension titles and definitions had very little effect on participants' judgments, making dimension distinctions neither better nor worse. It is likely that (a) multidimensionality in the vignette items and (b) natural correlations among the dimensions played a stronger role than our edits in determining dimension categorization.

### Performance Determinants

We computed the mean ratings for each dimension  $\times$  KSAO rating and the mean ratings across facets at the construct level. The mean ratings were reasonably stable. Considering there were just four raters, the ICCs (Shrout and Fleiss 1978; ICC 3, K) were acceptable, ranging from .60 for Unfair Treatment to .78 for Whistle-Blowing and Confidentiality, with a median of .72.

Seven facets demonstrated the strongest linkages to the EPRS dimensions. Four of the six Agreeableness facets (Trust, Morality, Altruism, and Cooperation), one Conscientiousness facet (Dutifulness), and two Knowledges (Professional Standards and Organizational Policies) received a mean rating of 1.0 (somewhat likely) across the 10 dimensions.

As shown by the grand mean ratings (across raters and facets) in Table 6, our research team tends to view the dimensions as either being primarily determined by knowledge or primarily determined by personality facets. The three knowledges were rated as being somewhat to very likely to predict performance in the following dimensions: Rule-Abiding, Confidentiality, Conflict of Interest, Whistle-Blowing, and Intellectual Property. To perform ethically in those dimensions, workers need to know relevant laws and policies. In contrast, facets of Agreeableness, particularly Morality, Altruism, Cooperation, Modesty, Sympathy, and Trust were thought to be stronger determinants of Unfair Treatment, Defamation of Others, Workplace Bullying, and Abuse of Power. The unethical behaviors in those dimensions are personal; they are directed toward individuals and are likely influenced by the dark side of personality. Two dimensions did not fit well with the others. Whistle-blowing was linked to Neuroticism facets (Anxiety, Self-consciousness, and

**Table 5** Comparison of the numbers of reliably sorted items in Study 2 and Study 3

	Number of item receiving = 50 % in Study 2	Study 3 results for items with 50 % or more agreement in Study 2					>50 % different dimension	Not reliably sorted in Study 2 with >50 % in Study 3
		>50 %	41–50 %	31–40 %	21–30 %	<21 %		
A. Truthfulness	28	19	5	0	3	1	0	3
B. Conflict of interest	17	11	6	0	0	0	2	1
C. Intellectual property	4	4	0	0	0	0	0	1
D. Confidentiality	8	5	3	0	0	0	1	0
E. Unfair treatment	14	12	2	0	0	0	0	6
F. Defamation of others	6	2	0	0	3	1	0	0
G. Workplace bullying	2	0	0	0	2	0	0	0
H. Whistle- blowing	12	10	0	0	2	0	2	0
I. Abuse of power	8	6	1	0	1	0	0	0
J. Rule-abiding	15	9	4	0	2	0	4	8
Total	114	78	21	0	13	2	9	19

**Table 6** KSAO performance determinants for EPRS dimensions

	Knowledge <i>K</i> = 3		GMA <i>K</i> = 1		Neuroticism <i>K</i> = 6		Extraversion <i>K</i> = 6		Openness <i>K</i> = 6		Agreeableness <i>K</i> = 6		Conscientiousness <i>K</i> = 6	
	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
J. Rule-abiding	1.75	.50	1.00	1.15	.63	.62	.25	.24	.57	.58	.88	.75	.79	.67
D. Confidentiality	1.67	.53	.75	.96	.33	.51	.13	.25	.13	.18	.99	.73	.46	.48
B. Conflict of interest	1.50	.33	.25	.50	.54	.59	.33	.58	.31	.18	.89	.71	.63	.56
H. Whistle-blowing	1.50	.58	.50	1.00	1.04	.67	.33	.40	.43	.42	1.17	.67	.71	.54
C. Intellectual property	1.33	.38	.50	1.00	.58	.53	.08	.17	.53	.49	.90	.80	.54	.65
A. Truthfulness	1.08	.50	.25	.50	.63	.67	.38	.40	.47	.50	1.03	.66	.50	.51
E. Unfair treatment	1.00	.91	.50	1.00	.42	.50	.25	.41	.31	.25	1.13	.74	.58	.57
G. Workplace bullying	1.00	1.02	.75	.96	.67	.90	.67	.80	.14	.25	1.35	.72	.79	.49
I. Abuse of power	.92	.96	.50	1.00	.71	.58	.42	.51	.22	.28	1.42	.60	.83	.67
F. Defamation of others	.58	.80	.50	1.00	.79	.90	.50	.75	.24	.35	1.31	.50	.63	.45

Participants were asked to rate the extent to which each knowledge, ability, or personality facet are likely to predict performance in this dimension using the following scale: 0 Not at all likely, 1 Somewhat likely, 2 Very likely. *n* = 4 research staff. *K* number of constructs within each facet

Vulnerability) as well as Knowledge and Agreeableness facets. Individuals who are easily intimidated or lack the emotional strength to stand up to transgressors are probably less likely to blow the whistle. The Truthfulness dimension was thought to be at least somewhat predicted by both Knowledge and Agreeableness facets. There can be many reasons for lying. Some might involve not understanding that bending the truth is against organizational policy while

others might be more a function of the individual's moral code.

## General Discussion

These studies break new ground by developing a taxonomy of ethical performance at work that generalizes well to a diverse array of occupations and industries, and moving

forward, can serve as a foundation upon which to develop theoretically grounded assessments. Moreover, our use of comprehensive qualitative reviews coupled with quantitative evaluation represents a comprehensive approach to taxonomy development.

### Strengths and Limitations

A strength of this study, and what makes it different from many qualitative reviews, is that we content-analyzed four distinct types of information to develop performance dimensions and scales in Study 1: (a) the published literature on ethical behavior, (b) professional codes of ethics from a sample of occupations, which was the data source for Kaptein (2008), (c) critical incidents of ethical performance from a large government organization, and (d) behavioral items from ethics surveys. Each literature source has merits and deficiencies. Published research has been peer reviewed but can suffer from publication bias. Also, much of the published literature has tended to focus on three professions: accounting, marketing, and finance (Collins 2000). Drawing on professional codes of ethics from a sample of industries enhanced the breadth of coverage of our dimension structure. Even so, professional codes of ethics tend to focus on egregious unethical behaviors and may not speak to less consequential and/or positive ethical behaviors. Critical incidents are ideal because they illuminate positive and negative behaviors, but they are (a) laborious to collect and (b) rarely reported in their entirety. Analyzing and synthesizing different types of information in Study 1 enabled us to ensure broad coverage of (un)ethical behaviors and provided a strong foundation for the dimensions and rating scales.

In turn, the 10-dimension set was then evaluated using a systematic retranslation process. Another strength of our method is that we evaluated the qualitatively derived performance dimensions and rating scales from Study 1 in two retranslation studies. Studies 2 and 3 demonstrated the soundness of the dimension structure. The use of numerous independent sources as well as qualitative and quantitative methods in tandem lends strong support for the 10-dimension structure of ethical performance.

One limitation is that the EPRS were developed using U.S. and Western-based critical incidents and vignettes, and the resulting performance model is a U.S.-based model. Culture could make two kinds of differences. First, the dimensional structure could vary because the “population” of possible critical incidents from which critical incident writers sampled their examples was not the same. That is, different cultures would generate different examples of (un)ethical performance. Second, specific behaviors may vary across cultures in terms of their degree of ethicality.

It is likely that different cultures define ethical behavior differently, and this could certainly present challenges for organizations. Examining the underlying dimensionality (e.g., via Confirmatory Factor Analysis-based measurement equivalence/invariance procedures) as well as perceptions of ethicality of different behaviors and practices across cultures would contribute to a more comprehensive and global perspective of ethical performance in the workplace.

Another limitation has to do with the nature of the sample for the retranslation studies (Study 2 and Study 3). The initial scale development involved critical incidents from organizations and vignettes from the published literature which were provided by people working in organizations in a variety of roles, and the initial generation of the dimensions was provided by experienced researchers. Graduate students made the retranslations. It would be interesting to repeat the exercise with a sample of business managers. While we think that the dimensions themselves would likely be stable across business settings, prior research does suggest that the point at which a behavior is judged ethical versus unethical can be influenced by the organization’s culture, leaders, and ethics-related training (Collins 2000). Therefore, we would expect some variation across organizations in judgments of the ethicality of behavior in the vignettes.

Finally, the current study provided initial evidence for the content validity of the scales. That is what the retranslation step was designed to do. It needs replication within, and across, cultures/countries. The consistency with which judges nominated the critical determinants of ethical performance on each dimension and the similarity of these results to research on the determinants of counterproductive work behaviors begin to address the construct validity of the dimensions. Obviously, much more needs to be done.

Additional future research needs to be done, in addition to the cross-cultural replications mentioned above. We need to estimate the relationships of actual assessments of ethicality, using these scales, to other performance dimensions, to hypothesized determinants of ethical performance, and to specific outcome variables.

### Theoretical Implications

This research helps clarify the overlap and differences between CWBs and ethical behavior. Four of our 10 ethical performance dimensions (Unfair Treatment, Defamation of Others, Workplace Bullying, and Abuse of Power) comprise malicious behaviors that are directed toward individuals. They evoke emotions and are characterized by mean-spiritedness. They overlap substantially with CWBs in the Campbell model of performance (Fig. 1), which is

also consistent with the findings of Spector and Fox (2010). Rule-Abiding, Confidentiality, Conflict of Interest, Intellectual Property, Truthfulness, and Whistle-Blowing all rely heavily on knowing right from wrong. Such behaviors might be more a function of self-interest or failure to understand the implications of one's behavior. These behaviors are not reflected in the Campbell model. Consideration should, and will, be given to adding a ninth factor to the Campbell model, Ethical Behavior, defined, tentatively, as "knowing and doing the right thing, following rules, avoiding conflict of interest, maintaining confidentiality, respecting intellectual property, reporting truthfully, and blowing the whistle when unethical situations arise."

### Research and Practical Implications

The 10 dimensions of ethical behavior identified in this project provide a sound foundation for a wide array of uses including: (a) performance management, (b) training/education, (c) job analysis, (d) predictor development and/or validation research, (e) analysis of ethical lapses, and (f) additional research.

#### Performance Management

The ethical culture of an organization sets the stage for ethical behavior of its workers (Peterson 2002; Vardi 2001), and the ethicality of leaders and peers influences worker behavior (Keith et al. 2003; Khuntia and Suar 2004). One way to communicate the importance of ethical behavior in the organization is to make ethical dimensions part of the performance management system. We see the EPRS as a tool that can be used to educate employees and communicate ethical standards. Dimension definitions and anchors could be reviewed by subject matter experts (SMEs) in the organization and the most relevant dimensions could be folded into existing performance rating tools. This would enable organizations to more systematically evaluate and influence ethical performance in the workplace.

#### Training/Curriculum Development

The 10 EPRS provide a potential set of learning objectives and learning materials to guide the development of training experiences to promote more effective ethical performance. There are several ways this could be done. Organizational members could rate the relevance of each of the dimensions to jobs and discuss the results in focus groups. The dimensions, particularly dimensions that require some knowledge of organizational policies, could be incorporated into any formal training programs offered by the employer. Another idea would be to develop a self-

assessment tool much like a cultural assimilator (Fiedler et al. 1972). Cultural assimilators use vignettes to teach cultural awareness; they provide rich explanations of why behaviors are or are not acceptable in a particular culture. An ethical culture assimilator would contain vignettes for each of the dimensions that are high priority for the organization. It would look much like a situational judgment test but would explain the rationale for the (un)ethicality of behaviors with the intent of educating organizational members.

#### Job Analysis

The first step in a job analysis involves gathering job relevant materials and creating/reviewing tasks and knowledges, skills, abilities, and other characteristics. It would be ideal to consider the EPRS dimensions at this initial stage and discuss any possible tasks and KSAOs that are likely to be related to ethical performance dimensions for the job. The dimensions themselves may or may not be part of a job analysis survey; regardless, they could be used to stimulate discussion and ensure consideration of ethical concepts.

#### Predictor Development and/or Validation Research

Future research gathering additional validation evidence for the 10 EPRS dimensions would provide the basis for the development of individual assessment tools. The 10 EPRS could be used as a starting point for developing (a) interview questions and interview rating scales relevant on ethics or (b) situational judgment tests of ethical performance. After SME review, the EPRS could be used as criteria for the validation of predictors of ethical performance.

#### Analysis of Ethical Lapses

One of the reviewers prompted us to think about how the dimensions might be useful for analyzing ethical lapses in organizations. For example, can the dimensions help us better understand Volkswagen's cheating-on-the-engine-test incident? The incident can be deconstructed, according to the roles individuals played. Someone made the conscious decision to cheat (i.e., the Truthfulness and Rule-Abiding dimensions). It is likely there were employees who knew what was going on but did not report it (i.e., Whistle-blowing). Did a supervisor make an overt or implied threat to ensure employees would follow through with the scam (i.e., Abuse of Power)? Breaking an incident down into individual's roles and relevant dimensions could help identify organizational interventions that reduce the likelihood of future ethical lapses.

## Additional Research

The 10 dimensions of ethical behavior identified in this project provide a taxonomic structure for future research on ethical performance in the workplace. The scales could be used to estimate the relationships among ethical performance, counterproductive work behavior, and management and leadership performance. Nevertheless, the present studies take an important first step in advancing our understanding of this phenomenon, and serves as a foundation upon which future cross-cultural studies and assessment-development efforts can be built.

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