A Practical Guide for Professional Engineers

ETHICS IN PRACTICE

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Throughout this publication, the male pronoun is used to cover references to both male and female for the sake of brevity and convenience. No gender preference is intended.

All amounts are in Hong Kong dollars unless otherwise specified.
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Where there is a grey area
There requires a sharp line of vision
As the President of the Hong Kong Institution of Engineers (HKIE), I am delighted to provide this message on the occasion of the timely publication of *Ethics in Practice - A Practical Guide for Professional Engineers* which is the joint effort of the Continuing Professional Development Committee (CPDC) of the Institution and the Hong Kong Ethics Development Centre (HKEDC) of the Independent Commission Against Corruption (ICAC).

Engineers are experts at putting technology to use, but this ability also comes with its responsibility. In achieving greater technological heights as we step into the new millennium, engineers will have to assume an even greater responsibility. Professionalism implies ethical responsibilities because society relies very much on engineers' responsible exercise of their expertise to receive important services. The Rules of Conduct of the HKIE clearly state the Four Responsibilities of a professional engineer, namely (1) Responsibility to the Profession, (2) Responsibility to Colleagues, (3) Responsibility to Employers or Clients, and (4) Responsibility to the Public.

I urge every and all of our Members to read and practise this Guide Book for the prosperity and betterment of our society.

I would like to express our gratitude to the hardwork of the Chairmen and Members of CPDC and HKEDC who make this Practical Guide possible.

Ir Prof C C Chan  
President (1999/2000)  
The Hong Kong Institution of Engineers
The Continuing Professional Development (CPD) Committee has always been active in promoting members to participate in CPD activities. In addition to liaising with Divisions to organize technical courses for different engineering disciplines, we contract with CPD course providers to run general courses on management, environmental and legal subjects, etc. The CPD Committee has also organized its own seminars and conferences. In the seminar jointly organized with the Hong Kong Ethics Development Centre in 1998, great interest amongst members on common legal and ethical issues was noted. While the Rules of Conduct of the Hong Kong Institution of Engineers clearly stipulated that members should discharge their duties in accordance with the highest standards of business ethics, it was felt that the principle could best be illustrated by real life and hypothetical cases. This will provide engineers with better guideline on how ethics can be applied in their workplace and how one could make ethical decisions. Thanks to the hard work of the Editorial Sub-Committee of CPD Committee and the ICAC, this *Ethics in Practice - A Practical Guide for Professional Engineers* was compiled. We hope members will find this Guide informative. The HKIE brings together professional engineers of different disciplines who provide service to the public at large. It is important that all our members can put professional ethics in practice, which will not only maintain public confidence in our work, but also promote the reputation and credibility of the profession.

James Y C Kwan  
Chairman  
Continuing Professional Development Committee  
The Hong Kong Institution of Engineers
Maintaining a high ethical standard in the engineering profession is crucial to the continuing healthy development of Hong Kong as a world-class city and to the growth of our construction industry in particular. Therefore, to strengthen Hong Kong’s competitive edge, we must seize the moral high ground in our efforts to prevent corruption. Since practising ethics is always the first line of defence against graft and abuse of office, the Hong Kong Ethics Development Centre (HKEDC), established in 1995 under the auspices of the Independent Commission Against Corruption, is committed to the continuing promotion of ethical business and management practices in Hong Kong.

For years, through cooperation and partnership with professional bodies and chambers of commerce, the HKEDC has worked diligently in promoting high degree of integrity and fair play. For example, together with the Hong Kong Institution of Engineers (HKIE), the Centre organized a professional ethics seminar in 1998. Since then, this effort has been sustained by the offering of ethics courses in Continuing Professional Development.

The *Ethics in Practice - A Practical Guide for Professional Engineers* is another new joint initiative in the new millennium. The Guide addresses the ethical issues engineers may encounter in their workplace and provides practical guidelines on how their ethical dilemmas should be dealt with when encountered. To this end, the HKEDC treasures the cooperative efforts with the HKIE in putting professional ethics into practice on all fronts. I hereby wish the launch of the Guide every success.

Dr. Robin Y H Chan, JP
Chairman
Hong Kong Ethics Development Advisory Committee
Acknowledgements

The Independent Commission Against Corruption (ICAC) and the Hong Kong Institution of Engineers (HKIE) are much indebted to the following parties for their invaluable contributions and opinions made towards this publication.

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CHAPTER 1

Why ethics concern engineers
"A profession is no better than its individual members; if they do not have the professional attitude and live by the ethical rules of the profession, they will have no profession."

*Robinson & Muspratt, 1986*
Playing an important role in designing and building the key infrastructure of modern society, engineers are required to work a lot more than routine application of engineering science and knowledge. In the exercise of special expertise, professional judgment, and supervisory responsibility over the technical and administrative work of others, an engineer should live by a high standard of behaviour and social responsibility laden with moral obligations. Professional ethics are of paramount importance to the engineering of a successful professional life.
Why are professional ethics important to engineers?

A hallmark of professionalism
Professionalism implies ethical responsibilities because society relies very much on engineers' responsible exercise of their expertise to receive important services. The special knowledge that confers considerable power and privileges to engineers may as well create the conditions for abuse and client vulnerability if the power is used unethically or incompetently. Thus, an engineer should abide by a high ethical standard so as to maintain public confidence in his profession.

Basic qualifying requirement
Most professional associations and technical societies, for self-regulation purpose, require their members to commit themselves in ethical practice in accordance with the guidelines set out in a written code of ethics. If an engineer fails to comply with the code, his registration with relevant professional body may be revoked or suspended and without such a qualification, he may be restricted from working for certain engineering projects, particularly those in the public sector.

An edge in competition
A number of survey studies confirm that practising ethics is an edge in market competition. There is an average of 70% of consumers who consider the ethical conduct of an individual or a company a major bearing on their decision in selecting products or services. That means clients often look for somebody whom they can trust. Implementing ethics in professional practice is just the ticket to win customer loyalty and long-term business relationships with clients. Ethics and revenues are in fact inextricably bound.

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Guidance to good practice

Professional ethics are a set of standards above the legal minimal requirement. Underpinning the basic values and related regulations in professional practice, they can help engineers to arrive at the best chosen course of action, especially when they are facing ethical dilemmas where values can easily become variables in the decision-making process. Without putting ethics in practice, an engineer is easily open to legal sanctions and expulsion or suspension of his membership in professional bodies due to violation of relevant laws and regulations.

Ultimate benefit of the profession

The engineering profession is under increased public scrutiny nowadays. The exposure of any unethical acts by members of the profession may devastatingly discredit engineers' professional status. The prospect of the profession hinges on an environment regulated by ethics and professional discipline. When professional ethics are adequately enforced in engineering practice, it ultimately benefits the entire profession by promoting its reputation, credibility and respectability.

The HKIE's guidance to good professional practice

To ensure the best quality of performance and maintain public confidence in the engineering profession, the Hong Kong Institution of Engineers (HKIE) has laid down the Rules of Conduct as the cornerstone of conduct requirements of professional engineers. Appended are the four fundamental ethical responsibilities of engineers stipulated in the Rules of Conduct:
Rule 1 Responsibility to the profession
A member of the Institution shall order his conduct so as to uphold the dignity, standing and reputation of the profession.

Rule 2 Responsibility to colleagues
A member of the Institution shall not maliciously or recklessly injure nor attempt to injure whether directly or indirectly the professional reputation of another engineer, and shall foster the mutual advancement of the profession.

Rule 3 Responsibility to employers or clients
A member of the Institution shall discharge his duties to his employer or client with integrity and in accordance with the highest standards of business ethics.

Rule 4 Responsibility to the public
A member of the Institution in discharging his responsibilities to his employer and the profession shall at all times be governed by the overriding interest of the general public, in particular their environment, welfare, health and safety.

Although the Rules are not intended as exhaustive specifications of what one should or should not do, they provide clues on what is necessary and important for professional engineers to fulfil. From them, an engineer can also seek guidance on how to deal with legal and ethical issues commonly encountered at work. Detailed guidelines are at Appendix II on p.78.
CHAPTER 2
What you should watch out for
"Ethical standards of practice have never been more besieged than they are today. Those with strong moral fibre, a dedication to professional integrity, and the ability to reason soundly must find the power to resist the attack."

Lewis, 1995
In this chapter, we will focus our discussion on the legal and ethical issues that may be found in the engineering profession, namely offering and acceptance of illegal advantages, fraud, preservation of confidential information, conflicts of interest and professional proficiency.

Scenarios based on past prosecutions as well as hypothetical cases are used to illustrate how unethical situations can develop, and how engineers can apply ethics in their workplace.
Chapter 2 What you should watch out for

1. Offering and acceptance of illegal advantages

The offering and acceptance of bribes can unfairly influence judgment and decisions, and seriously impair the interests of clients and other stakeholders.

To prevent non-compliance, engineers are obliged to thoroughly understand the standard set in the HKIE's Rules of Conduct and what constitutes a corruption offence under the Prevention of Bribery Ordinance (PBO).

Overview of the Prevention of Bribery Ordinance

The PBO, governing both the private and the public sectors, is the law against corruption. It sets out the standards of behaviour for employees when they are conducting their employers' business. Major points of the Ordinance pertaining to the engineering profession are summarized below: (Please refer to Appendix I on p.72 for details of the Ordinance)

Provisions governing the private sector

<table>
<thead>
<tr>
<th>Provision</th>
<th>Summary of law</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 9</td>
<td>It is an offence for an agent (normally an employee) to solicit or accept an advantage without the permission of his principal (normally the employer) when conducting his principal's affairs or business.</td>
</tr>
<tr>
<td></td>
<td>The person who offers the advantage is also guilty.</td>
</tr>
<tr>
<td></td>
<td>It is also an offence for an employee to use any false document, receipt or account to deceive his employer.</td>
</tr>
</tbody>
</table>
### Provisions governing dealings with public servants

In supervising engineering projects, engineers often come into contact with public servants, including government officials and employees of public bodies such as gas or power companies. Thus, it is important to get a clear understanding of the following provisions:

<table>
<thead>
<tr>
<th>Provision</th>
<th>Summary of law</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 4</strong></td>
<td>It is an offence for a public servant to solicit or accept any advantage offered as a reward in connection with the performance of his official duty.</td>
</tr>
<tr>
<td>Preventing public officials from abusing authority for personal gain and safeguarding community's interests</td>
<td>Any person offering such an advantage also commits an offence.</td>
</tr>
<tr>
<td><strong>Section 5</strong></td>
<td>It is an offence for a public servant without written permission of the public body to solicit or accept an advantage for giving assistance in securing contracts from the public body.</td>
</tr>
<tr>
<td>Maintaining fair play in the procurement of contracts with public bodies</td>
<td>Any person who offers such an advantage also commits a corruption offence.</td>
</tr>
<tr>
<td><strong>Sections 6 &amp; 7</strong></td>
<td>Any person who accepts an advantage from another person for not making a tender or bidding at an auction in relation to a public body's project is guilty of an offence.</td>
</tr>
<tr>
<td>Maintaining fair play in tendering and auctions of public projects</td>
<td>Any person who offers the bribe in this situation also commits an offence.</td>
</tr>
<tr>
<td><strong>Section 8</strong></td>
<td>It is an offence for a person to offer an advantage to a public servant while having dealings with the public servant's office/department.</td>
</tr>
</tbody>
</table>
Points to note

1. **Principal** - generally refers to an employer. In a private organization, "employer" means the proprietor or the board of directors. For an engineer, your principal is not confined to your employer, but can include your clients when you are doing an act in relation to their business.

2. **Agent** - is a person acting for or employed by the principal. But at the same time, you are also the agent of your clients when you are doing an act in relation to your clients' business.

3. **Advantage** - refers to anything which is of value such as money, gift, employment, service, or favour etc., but does not include *entertainment* which means food or drinks provided for immediate consumption on the occasion.

4. **Principal's permission** - It is lawful for an agent to accept an advantage in relation to his official duties with his principal's permission. Such permission has to be sought before the advantage is solicited or accepted. If the advantage is accepted without prior permission, the agent must apply for his principal's retrospective approval as soon as possible. The principal will see to the circumstances in which the advantage is sought before granting such approval. For an engineer, you must also obtain the consent of your client, in addition to your employer's permission, to the acceptance of an advantage when you are handling your client's business.

5. **Customs constitute no defence** - It shall not be a defence to show that any advantage accepted or offered is customary in any profession, trade or festive season. The court shall make the judgment based on whether permission is given by the principal.

6. **Verbal agreement counts** - The offerer and recipient of a bribe are liable to prosecution so long as a verbal agreement of corruption is reached, and both parties will be guilty notwithstanding that the purpose of the bribery is not carried out.

7. **Penalties** - A person who violates the PBO can be subject to a maximum penalty of ten years' imprisonment and a fine of $1,000,000. He may also be prohibited from taking up a management post of a corporation or a public body, or practising in any profession for a period not exceeding seven years.
Scenario 1 Offering and accepting bribes in contract offer

A manager of an air-conditioning equipment supplier attempted to induce an engineer to award a contract to the supplier’s sub-contractor so that he could pocket the difference of the inflated costs of the job.

The supplier was to supply spare parts to the engineer’s company for an air-conditioning project of a large exhibition centre. As some of the parts supplied broke down due to manufacturing fault, the supplier engaged a sub-contractor to carry out repairing work at its own expenses. The work, however, was done unsatisfactorily. The engineering company subsequently reallocated the work to its own contractor and assigned the engineer to supervise the work. The supplier’s manager thus approached the engineer in a bid to get the job back to his sub-contractor by promising to share the difference of the inflated costs with the engineer.

The engineer refused the offer and reported the matter to the ICAC. Eventually convicted of offering illegal advantages under the PBO, the manager was fined and sentenced to imprisonment.

Analysis

The positive action of the engineer was a good illustration of the proper action to take when one was being offered a bribe or had discovered malpractices: refuse the bribe and report the matter to the ICAC or the management.

The use of bribery to obtain contracts would inflate the operation costs of the bidder and cause unfairness to other bidders who observed the principle of fair play. The services procured might also fall short of standard and affect the overall quality of the job because no supplier could go on absorbing corrupt payments and still give the quality you want.
Scenario 2 Accepting substandard works

Three young company engineers and other construction staff conspired to construct, and subsequently to cover up, substandard bored piles at the Northern Basement Site of the Airport Railway Hong Kong Station.

The scam was instigated because the sub-contractors believed that they could only make a profit from the contract if they could save labour costs by not constructing the piles to specification. If the contract was not completed on time, the payment of penalty costs would cause a heavy loss to the sub-contractors. It was agreed that piles shorter than the required length would be constructed and that shortened tape measures and false bored pile reports would be used to deceive the supervisory staff from the Resident Engineers. In order to cover up the scam and continue substandard construction works, fraudulent concrete delivery dockets, false bored pile core samples and false sonic test results were also produced.

The conspiracy ran for at least five months before being discovered by an inspector of works. $200,000 was subsequently offered to the inspector to buy his silence but he refused and informed his supervisor. Investigations revealed that 83 out of the 87 piles had not been constructed to specification, leaving the foundations seriously defective and resulting in remedial work costing many millions of dollars.

Those persons convicted of involvement in the scam were heavily penalized when terms of imprisonment ranging from three years and eight months to one year were handed down by the District Court Judge.
Turning a blind eye to substandard works would result in building defects, causing the company extra costs to rectify the problem. Worse still, such hidden faults in construction works would be hazardous to public safety.

The engineers were overly conscious of the economic implications of the delayed work, but overlooked the even larger implications of substandard works to public safety. As stipulated in the Rules of Conduct, an engineer’s responsibilities to his employer and the profession should at all times be governed by the overriding interest of the general public.

In covering up the substandard works through fraud and bribery, the engineers and other defendants finally could not excuse themselves from legal sanctions.

In passing the sentence, the judge commented that the defendants “place in jeopardy not only the structure and those using it but also the reputation of Hong Kong. The potential consequences of their actions may quite fairly be described as disastrous. The conduct of these Accused casts a shadow over the entire construction industry ... each of the Accused was either experienced in the field or possessed an appropriate qualification - none has any valid claim to ignorance.”

Corruption could bring devastating damage to one’s career and reputation. Young and front-line engineering professionals need to live by a high standard of integrity so as to resist the corruption temptations facing them in the workplace.

Referring to the Rules of Conduct of the Hong Kong Institution of Engineers.
Scenario 3  Accepting bribes in granting project approval

A government chief engineer took advantage of his office to solicit $400,000 from a project manager of a land development company as a reward for his assistance in obtaining green light for the company's car park development project.

Subsequent to the first application of the project being turned down by the relevant government department, the chief engineer asked for the advantages from the company. Frustrated at being asked to pay bribes to secure the project, the project manager reported the case to the ICAC. The chief engineer, eventually convicted of soliciting and accepting illegal advantages, was sentenced to an imprisonment of four years and six months.

Analysis

As a government employee, the chief engineer was not permitted to accept advantages in connection with his work. In soliciting illegal advantages from the land development company, he had violated Section 4 of the PBO.

The chief engineer's plot failed before he could do anything to secure the project, but he could not escape from legal sanctions. Under Section 11 of the PBO, if it could be proved that an advantage was given to the acceptor as a reward for favours done to the offerer, the following should not be considered a defence: (a) "he did not actually have the power so to do", (b) "he accepted the advantage without intending so to do" or (c) "he did not in fact so do."
Tips to handle issues of offering and acceptance of advantages

(a) Seek guidance from the employer: clarify with your employer if there is no written policy on whether employees can accept advantages from clients or business associates in the course of business dealings.

(b) Avoid the "sweetener": avoid a situation whereby the acceptance of advantages will place you in a position of obligation to reciprocate the offerer. From past experience, corruption does not always start with a direct bribe. In fact, it often begins with a "sweetening up" process laden with lavish entertainment and offering of small gifts which do not seem to be connected with your official duties at the time of offering. Hence, you will then be trapped in an embarrassing or compromising situation when you are asked to return a favour later on.

(c) Ensure the recipient has his employer’s permission before offering advantages: obtain the confirmation from the recipient's employer that he is permitted to accept advantages from clients or business associates.
Chapter 2  What you should watch out for

2. Fraud

Fraud often comes hand in hand with corruption and they feed on each other. Fraud in the engineering practice will undermine the trust placed on engineers by employers, clients, and the public in general.

Scenario 1  Defrauding by giving false information

In arranging the repair of an air-conditioning system of the hotel, a hotel's chief engineer conspired with a spare part supplier to deceive the hotel by claiming to have ordered a batch of extra and unnecessary spare parts for the project.

Asking the supplier to submit false invoices in respect of the false purchases, the chief engineer in return could pocket 90% of the payment. The false purchase caused the hotel to pay out over $60,000 for goods it never received.

The chief engineer, eventually being brought to book, was found guilty of conspiracy to defraud and was sentenced to a 12-month imprisonment while the supplier was fined $10,000.

Analysis

The chief engineer abused the trust of his employer and misused his authority to defraud in the process of procuring goods for his company, failing to fulfil his duty of loyalty to his employer. Using false documents to deceive and mislead his employer for personal gain, he finally could not escape from legal sanctions.

Management deficiencies would breed opportunities for corruption and malpractices. If proper systems of control were not in place, dishonest staff would exploit possible loopholes for personal gain, causing the company to suffer from financial loss and tarnished reputation.
Scenario 2 Inflating the number of jobs done by contractors

Using seven false invoices, a company’s lift maintenance engineer conspired with two maintenance supervisors and a sub-contractor to defraud his company by claiming that certain jobs were carried out by the sub-contractor whereas the jobs were actually done by the maintenance engineer’s subordinates. The offences came to light when one of the workers suspected irregularities and reported to the ICAC.

Upon conviction of defrauding and deception, the maintenance engineer and the sub-contractor were both sentenced to an imprisonment of 12 months, suspended for two years. The remaining two defendants were sentenced to a nine-month imprisonment.

Analysis

The maintenance engineer breached the Rules of Conduct which required an engineer to treat his colleagues and co-workers fairly and to avoid abusing his authority. Misusing his supervisory position for private gain, the maintenance engineer breached the law and undermined the financial interest of his company.

Implementing proper controls on contracting procedures, carrying out frequent random supervisory checks and conducting regular communication with contractors and staff could help detect early symptoms of irregularities and prevent such malpractices from happening. Encouraging staff to report malpractices to senior management or the compliance officer through proper channels of complaints would also be effective in stopping unscrupulous staff from committing a crime or malpractice.
Scenario 3 Deceiving the company by using a bogus company

When receiving his company's instruction to design a computer software for a digital answering machine, a company's software engineer claimed that he was too busy to take up the job and recommended it to be contracted out to an outside software house which was owned solely by his former colleague.

The software house owner at first had no intention to undertake the job. But the software engineer persuaded him to secure the job first and then sub-contract it back to the software engineer. Using the software house as a disguise to deceive his own company, the software engineer could pocket $95,000 being 90% of the project fee while the rest would go to the owner.

The crime was soon discovered. Facing the charges of accepting illegal advantage and furnishing false information, the software engineer was eventually sentenced to a nine-month imprisonment, suspended for two years.

Analysis

The software engineer contravened the Rules of Conduct which required an engineer to offer complete loyalty to his employer and avoid engaging in business, investments or activities which conflict with the interests of his employer.

An employment or contract could be considered as an advantage. As the software engineer's company neither approved the engineer to take up part-time job nor allowed him to accept any advantage in relation to his duties, the engineer had violated Section 9 of the PBO for accepting the software design job.
3. Preservation of confidential information

Engineers have a duty of loyalty to clients and employers that requires them to preserve confidentiality of information. This is a well-established principle as most information about how a business is run and its products or services directly affects the company's ability to compete in the marketplace. Besides, some information may, on the surface, appear to have little value or interest to the public in general but is of value to culprits.

Scenario 1  Leaking confidential information on potential projects

A government senior engineer who has obtained the information of a highway development project through participating in its planning work, attempts to make money by selling the restricted information.

The senior engineer seeks his brother's help to carry out the plot. Before formal invitations for tenders are made public, the senior engineer's brother approaches a middleman and asks him to look for a contractor who will be interested in the project. He says he has restricted information to offer which can assist the tenderer to obtain the contract. In return, he asks for 3% of the contract price as a reward and promises to share part of the profits with the middleman.

Analysis

The senior engineer may breach the Rules of Conduct which require an engineer to safeguard confidential information in relation to his employer and to refrain from receiving any advantage for disclosing such information or making use of it for personal gain.

Being a government employee, he may also breach Section 4 of the PBO if he receives an advantage to leak confidential information.

Although the advantage is solicited by the senior engineer's brother, the senior engineer himself can still be liable to the charge of a corruption offence as the advantage is to be received on his behalf.
Scenario 2  Leaking tender information

An engineering graduate has joined a construction company as an assistant engineer and is responsible for collecting tenders for specialist services. He comes to know a sub-contractor who is particularly on good terms with him as they are both hi-fi lovers.

When time comes for a tender to be made for a fire-proofing job of an electric plant, the sub-contractor invites the assistant engineer out to a sumptuous dinner over which he suggests a deal. The assistant engineer is to go through the tenders secretly and let him know the lowest bid by leaving a message on his pager using a code. The sub-contractor will then beat that price and get his bid in just before the closing time. In return, the sub-contractor promises to give him a big "laisee" in the coming Lunar New Year. To win the young fellow over, the sub-contractor says that someone will get the project any way and he is as good as anyone else.

Analysis

Corruption will inflate project costs and impair fair competition. The quality of work is also of question as the sub-contractor is not chosen by an objective assessment of its competence and capability to duly complete the job.

If the assistant engineer leaks the tender information to the sub-contractor, he will breach the Rules of Conduct which prohibit engineers from disclosing confidential information and require them to act in the best interest of the employers.

He may also commit a corruption offence under Section 9 of the PBO if he accepts an advantage as a reward for leaking the confidential tender information to the sub-contractor.

Although the "laisee" will be given in the Lunar New Year, the assistant engineer cannot excuse himself by saying that the acceptance is a customary practice during festive seasons and it will not be accepted as a defence under the PBO.
Scenario 3  Misuse of proprietary information

A medium-sized company’s production engineer is one of the primary contributors to the design of an innovative electronic thermometer that later becomes the "lifeblood" of the company. He leaves the company when it is taken over by another company.

Shortly after the production engineer joins another medical equipment company which is a major competitor of his former company, he discovers that his new employer intends to develop a new electronic thermometer. He notices that a slight modification of the former electronic thermometer will work well for his job. In order to impress his new employer, the production engineer decides to develop a new thermometer based on the product of his old company, disregarding that he has signed a confidential agreement with his former employer for not leaking the design of the product.

Analysis

The production engineer may contravene the Rules of Conduct which prohibit an engineer from making use of proprietary confidential information for personal gain. When working with new clients or changing employment, an engineer has a moral obligation to honour confidential and proprietary information gained from his previous employment, particularly the specific business or technical information from clients or employers.

The Rules of Conduct also require an engineer to properly credit the contributions of others in engineering practice.

The production engineer may risk facing lawsuits from his former employer by infringing intellectual property rights and breaching the confidential agreement signed in his previous employment.
Chapter 2  What you should watch out for

Tips to identify proprietary information or information of value

Useful questions to evaluate whether the information is of value to a third party:

1. Has the information been made public yet?

2. Will the release of information affect the interest of stakeholders, including employers, clients, or members of the public? e.g. violating the privacy of individuals, causing financial loss to the company, etc.

3. Will a third party treat the information as relevant in determining what action to take for securing a benefit? e.g. winning a tender.

If in doubt, you should consult your employer or a designated person in the company e.g. the compliance officer.
4. Conflicts of interest

A conflict of interest arises when personal interest of an engineer competes with the interests of his employer or clients. Conflicts of interest can distort and cast doubt on the reliability of professional judgment, sow seeds of distrust and in its most serious form can result in corruption.

**Scenario 1  Awarding contracts through favouritism**

A plant engineer of a hi-tech electronic product manufacturer is responsible for maintenance of the company’s production facilities. The plant engineer comes to know a maintenance service supplier who frequently treats him to lavish entertainment at clubs and leading restaurants. Later, the supplier invites the plant engineer to join his company as a partner and promises him a share of the company’s annual profits if the plant engineer agrees to award more contracts to him thereafter. Mindful of the supplier’s past generosity, the plant engineer feels embarrassed to turn down the supplier’s offer.

**Analysis**

*The plant engineer may contravene the Rules of Conduct if he conceals his personal interest in the supplier’s company and secures business for the supplier who may not be the best capable service provider for his company.*

*Both the plant engineer and the supplier may violate Section 9 of the PBO if the partnership, which can be an advantage under the PBO, is offered and accepted without the permission of the electronic product manufacturer.*

*Although entertainment is common in business practice, the plant engineer should avoid accepting excessive entertainment that may affect his objectivity in discharging duties. He should also check whether his company has any policy on the acceptable level of hospitality offered by contractors/vendors to prevent any conflicts of interest or the potential for such a conflict.*
Scenario 2 Unauthorized loan from contractors

A project engineer is employed by a chemical product manufacturer to supervise the engineering works performed by its contractors. Due to his job nature, he develops a close companionship with a contractor who has recently undertaken a gas tank repair project of the company.

Learning that the project engineer suffers from substantial loss in a recent stock investment, the contractor immediately offers to lend the project engineer $200,000 to help him overcome the financial difficulty.

When time comes for an inspection to be conducted for the gas tank repairing works, the contractor requests the project engineer to turn a blind eye to certain defects found in the finished works, saying that the defects can have little chance to pose a safety hazard. He also reminds the project engineer of his generosity to him in the past. The project engineer finds it difficult to require the contractor to rectify all the defects found in the works.

Analysis

Besides breaching the Rules of Conduct, the project engineer may put his employer’s interest and public safety at stake if he compromises his objectivity in professional judgment and turns a blind eye to substandard works.

The project engineer should not accept a loan from persons who have business dealings with the company, placing him into a position of obligation that may lead to a conflict of interest.

The project engineer and the contractor may be liable to the charge of a corruption offence under the PBO for offering and accepting a loan, an advantage under the PBO, in relation to the duties of the recipient’s company without his employer’s permission.
Scenario 3 Unauthorized outside work

A senior engineer of a telephone company is approached by his friend, an engineering company's proprietor, for assistance in his business in trading communications equipment.

Since the senior engineer is responsible for overseeing telecommunication network design and procurement of communications equipment, the company owner requests him to make recommendations to the telephone company for purchasing the products of his newly established company. In return, he promises to employ the senior engineer as a consultant of his company.

Agreeing to the proposal, the senior engineer then helps in making the engineering company an authorised vendor of the telephone company and lines up transactions for the company owner.

Analysis

By helping the company owner, the senior engineer's personal interest is in conflict with his employer's interest. If the conflict cannot be avoided, he should inform his employer in writing of the potential conflict and declare his interest in this outside employment.

An outside employment is an advantage under the PBO. Without the telephone company's approval, the senior engineer and the company proprietor may be open to the charge of bribery due to the advantage offered and accepted, namely a consultant post of the engineering company.

Although the senior engineer may have offered help to his friend out of good intent, his acts in fact contravene the principle of fair competition.
Tips to maintain objectivity at work

If you suspect there is a conflict of interest when dealing with your employer's affairs, you should declare to your employer:

1. any private interest which may affect your judgment in performing your duties;
2. any investment held by yourself and your close relatives which may lead to a conflict of interest;
3. any decision made which may ultimately prejudice the interests of other clients; or
4. if you are asked to work in an area where you have already had a private interest.
5. Professional proficiency

Good engineering practice is a matter of both ethics and competence. In exercising professional judgment and discretion in a trustworthy and responsible way, ethical and technical considerations are very often inextricably bound. To be competent, an engineer should have a good mastery of technical knowledge and skills as well as the capability to apply them with due care and diligence.

**Scenario 1 Unreasonable exercise of discretion**

A senior engineer of an engineering consultant firm recently undertakes to oversee a public transport project on behalf of the government. Owing to frequent contact, he gets on famously with a contractor who is around his age and shares his interest in golfing.

On one occasion, the contractor treats the senior engineer to a lavish meal in the Country Club and then reveals his hidden agenda. He says that the funds for the public transport project are quite short and he wishes to have more allowances for contingencies. As the senior engineer can approve claims for additional costs, the contractor tries persuading him to exercise his discretion and add $5,000,000 to the project. As a token of thanks, the contractor promises to treat the engineer to an overseas golf trip.

**Analysis**

The exercise of discretion in approving claims should be based on an objective assessment of the project's financial requirements. To comply with the Rules of Conduct, the senior engineer should avoid his professional judgment being clouded by the offer of advantages.

The senior engineer becomes the agent of the government (the principal) as he oversees the transport project on behalf of the government. Without the principal's consent, he should not receive an advantage - free vacation - when dealing with the principal's affairs.
Scenario 2 Misuse of authority

A senior engineer of a public body is assigned to supervise the construction work of the organization’s new headquarters. In the process of calling tenders for curtain walling works, a contractor and a close associate of the senior engineer indicates immense interest in the project.

Just before an official invitation for tendering is issued, the contractor offers to secure a highly sought-after golf club membership for the senior engineer to exchange for his assistance in winning the tender. He requests the senior engineer to manipulate tender requirements to suit his company so that he can obtain the contract for the job. In fact, the contractor charges a much higher rate than the other construction companies and the technical processes for constructing the curtain walling are not cost-efficient.

Analysis

The senior engineer may violate the Rules of Conduct if he abuses his official authority to manipulate tender requirements in exchange for an advantage in the form of a golf club membership. He fails to fulfill his obligation to protect the interests of his employer and clients as the contractor may not provide the best service to his organization, not to mention the excessive construction fee charged.

If the senior engineer does not obtain prior permission from his employer to accept the advantage, he may contravene Section 5 of the PBO which prohibits a public servant from accepting illegal advantages for giving assistance in securing contracts from the public body. And the contractor, the offerer of advantages, can also be liable to prosecution.
Scenario 3  Lax site supervision

The duty of a plant engineer in a manufacturing company is to ensure proper consumption and disposal of chemicals used for production. Being tied down by paperwork, the plant engineer seldom has chances to conduct on-site supervision over the workers in the factory. To ease the problem, he assigns a technical assistant to carry out the inspection for him.

When several chemical workers have developed serious skin problems and complain about the hostile working environment, the plant engineer begins to realize that some of the workers have continuously misused the chemicals. Worse still, chemical wastes are not properly disposed of and may have leaked to a river nearby through the drainage of factory without treatment.

**Analysis**

The plant engineer breaches the Rules of Conduct by failing to discharge his supervisory role with due diligence and care, resulting in chemical pollution to the environment and potential safety and health hazards to the workers and the public.

To comply with the standard, the plant engineer should have the supervisory control tightened up and if required, should delegate the supervisory authority to a person who is sufficiently competent to carry out the responsibility.
CHAPTER 3

Where to draw the line
"Fulfilling professional responsibilities requires more than rule following. Fulfilling a responsibility requires some maturity of judgment. The expressions 'the age of responsibility' or 'the age of discretion' acknowledge the maturity of judgment required to take on responsibilities."

Whitebeck, 1998
The laws and codes of conduct, though can act as a guidance, may not provide solutions to every ethical concern in engineering practice. As shown in the scenarios discussed in the last chapter, engineering professionals are required to prudently exercise their personal judgment and discretion in resolving ethical dilemmas at work. To make an ethical decision, one has to develop skills conducive to sound judgment.

The ETHICS PLUS decision making model developed by the Independent Commission Against Corruption (ICAC) is a helpful tool for resolving ethical issues. It delineates the thinking process and standards that can be used by engineering professionals in arriving at a chosen course of action in a structured and systematic way. The essence of the model is as follows:
1. The ETHICS process – Six major steps to follow

- Establish the relevant facts and identify the ethical issues involved
- Take stock of all stakeholders or parties involved
- Have an objective assessment of each stakeholder’s position
- Identify viable alternatives and their effects on the stakeholders
- Compare and evaluate the likely consequences of each alternative with reference to the standards expected (PLUS factors below)
- Select the most appropriate course of action

2. The PLUS standards – Four key factors to consider

- Professional/trade-related/company code of conduct
- Legal requirements; e.g. are there any breaches of the laws such as the Prevention of Bribery Ordinance, Theft Ordinance, Criminal Procedure Ordinance, etc.?
- Uncompromising self values; e.g. honesty, fairness, trustworthiness, etc.
- Sunshine test; i.e. whether the issue can be discussed openly and the decision disclosed without misgivings
How to apply the ETHICS PLUS Model

Case Study: Winston - the whistle-blower

Winston, an electrical engineer of Interests Engineering Company, is responsible for overseeing the work of sub-contractors and handling claims from them. Owing to his outstanding performance, he is recommended by his immediate boss Ryan for speedy promotion to fill a vacancy left by a senior engineer in another department.

Meanwhile, Winston is assigned to supervise the wiring works for an audio system of a giant commercial complex. When Ryan is on leave one day, Winston receives from the Account Department an invoice for $140,000 from a sub-contractor called First-line Cable Works claiming the labour cost for laying cables in the commercial complex.

Realizing First-line is not involved in the project, Winston discusses the matter with Ryan the next day. But Ryan tells him to process the claim as if it were a normal claim. Ryan explains that the money is for paying an engineering staff of the client company who has helped them obtain the contract of audio system installation and promises to ensure smooth running of the project. Winston understands that the offer can mean illegal bribes and urges Ryan not to offer the money. Ryan in fact conceals from Winston that he has pocketed money from the project by inflating its tender price through the assistance of the client's engineering staff. The money is paid as a reward to that engineering staff for facilitating him to carry out the scam. To hide the malpractice, Ryan asks Winston to keep his mouth shut and to process the claim by using a false work order. In return, he will help Winston secure his promotion.

Winston hesitates but does not know what to do. Should he keep silent? Will he betray Ryan if he blows the whistle?
Guidance to sound judgment

Should Winston blow the whistle and disclose Ryan's misconduct? If you were Winston, what would you do?

The following guidelines developed under the ETHICS PLUS Model provides a structured analysis on how to resolve the ethical dilemma:

**If I were Winston, I would...**

**Step 1**

**Establish the facts and identify the ethical issue in question**

<table>
<thead>
<tr>
<th>Ethical issue:</th>
<th>Should I blow the whistle and report Ryan’s misconduct?</th>
</tr>
</thead>
<tbody>
<tr>
<td>I discover that Ryan offers bribes to secure business and conspires with others in defrauding the company.</td>
<td></td>
</tr>
<tr>
<td>I have urged Ryan to stop the malpractices but he refuses.</td>
<td></td>
</tr>
<tr>
<td>Ryan asks me to help cover up the secret deal and in return, he offers to secure my promotion as a senior engineer.</td>
<td></td>
</tr>
<tr>
<td>No one will discover the secret if I process the claim by using false work order endorsed by myself and countersigned by Ryan.</td>
<td></td>
</tr>
<tr>
<td>Ryan has treated me well all along and I owe him a favour as he has recommended me to a speedy promotion.</td>
<td></td>
</tr>
<tr>
<td>If I collaborate, I can secure my promotion.</td>
<td></td>
</tr>
</tbody>
</table>

**Step 2**

**Take stock of all the stakeholders involved**

- Myself
- My company
- My clients
- Ryan
- Engineering profession
Myself:
- Failing to fulfill my professional ethical responsibilities if I do not report.
- Tarnishing my career if I am found to have collaborated with Ryan.
- Facing lawsuits and disciplinary actions by the company, professional body and law enforcement authorities.
- Ruining my relationship with Ryan if I refuse to collaborate.
- Betraying Ryan if I blow the whistle.
- Tarnishing my promotion prospect if Ryan manages to cover up his malpractices after I have made the report.
- Reflecting badly on me once the irregularities are detected and I am found remaining silent despite knowing it.

My company:
- Suffering from direct financial loss because of the fraud.
- Causing corporate culture to deteriorate and affecting the company's development if staff only care about their self-interest.
- Being unfair to other staff if Ryan's misconduct is tolerated.

My clients:
- Suffering from financial loss if illegal practices are used to secure business.
- Losing confidence in the engineering profession if unethical and illegal practices are tolerated.
Chapter 3 Where to draw the line

Ryan:
- Failing to fulfil his professional responsibilities in protecting the interests of the company/clients and maintaining integrity in engineering practice.
- Facing lawsuits and disciplinary actions by the company, professional body and law enforcement authorities.
- Ruining his engineering career if he is found involving in illegal practices.
- Continuing the malpractices if no one stops him.

Engineering profession:
- Tainting its reputation and impairing its credibility if members are found to have committed illegal and unethical practices.
- Undermining public confidence in the profession and its members.

Step 4
Identify alternatives and assess effects on each stakeholder
- Colluding with Ryan.
- Refusing Ryan's offer but keeping the secret.
- Urging Ryan to stop the malpractices.
- Reporting to the senior management/professional body/law enforcement authorities.
- Washing hands of the collaboration and resigning from the company.
Step 5

Compare and evaluate each alternative with reference to the four PLUS standards

Professional codes of conduct and company rules:

The HKIE's Rules of Conduct
- Prohibiting any engineer from receiving or offering illegal advantages.
- Requiring an engineer to offer complete loyalty to his employer and clients.
- Requiring an engineer to bring to the notice of the HKIE any evidence of unethical, illegal or unfair professional practice.

Company rules
- Are there any company guidelines on offering and acceptance of advantages?

Legal requirements:

Section 9 of the Prevention of Bribery Ordinance
- Prohibiting an engineer from offering or accepting illegal advantages that can impair the objectivity in exercising professional duties or jeopardize the interests of the employer and clients.
- Prohibiting an engineer from using any false document, receipt or account to deceive his principal including the employer and clients.
- Prohibiting an engineer from conspiring with others in a corruption offence.

Criminal Procedure Ordinance
- Prohibiting an engineering professional from accepting a reward for covering up an arrestable offence.

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Chapter 3  Where to draw the line

**Theft Ordinance**
- Prohibiting an engineer from defrauding by using false documents.

**Uncompromising self values:**
- Are there any particular alternatives that are commensurate with my personal values such as honesty, fairness and trustworthiness in performing my duties?

**Sunshine test:**
- Can I disclose my decision to any parties including my company, colleagues, friends and family members, without misgivings?

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**Step 6**

**Select the appropriate course of action**
- Evaluating each alternative against the PLUS standards and selecting an appropriate course of action that can maximize the important values and interests of all stakeholders.
- Making a commitment to the choice and implementing it.
CHAPTER 4

What are the control measures
"Ethics... as much an organizational as a personal issue. Managers who fail to provide proper leadership and to institute systems that facilitate ethical conduct share responsibility with those who conceive, execute, and knowingly benefit from corporate misdeeds."

Lynn Sharp Paine

*Quoting from "Ethics in Engineering" by Mike W. Martin & Roland Schinzinger.*
As project managers, engineers have an obligation to ensure every project is guarded against unethical and illegal practices that can jeopardize the interests of the employers, clients and the public at large. Although on many occasions engineers may delegate work and authority to subordinates or site staff, they cannot excuse themselves from imposing proper supervisory controls and have to shoulder the ultimate responsibility of any slippage occurred in the work under their supervision.

This chapter will provide you with some preventive measures to tackle common ethical issues in engineering practice such as unreasonable exercise of discretion, slippage in supervision, misuse of proprietary information, conflicts of interest and unfair tendering. These guidelines are particularly important to engineers who undertake a managerial role in their organizations.
How to avoid unreasonable exercise of discretion

**Strengthen internal supervisory checks**
- Clearly define roles, responsibilities, accountabilities and levels of authority of staff and incorporate supervisory checks on their work.
- Visit the site regularly and conduct random spot checks frequently to ensure work quality and to detect irregularities.
- Implement intensive checks if suspicious signs of irregularities are detected during random checks.
- Require subordinates to hand in regular reports on work progress, project management, work quality control and matters that are cost significant.
- Alert all staff that their work and decisions are subject to monitoring and spot checks at any time.

**Adopt independent technical audit**
- Appoint an independent technical audit team to monitor and evaluate technical judgments and decisions of professional staff for compliance purpose. Such teams may be employed from outside or composed of other engineers in the company deployed to perform such a function on an ad hoc basis.
- Ensure the effectiveness of such a professional audit team by making it report directly to the Chief Executive of the company or the audit committee of the project.

**Conduct peer review**
- Develop mechanism which allows professional staff to counter-check and review their peers’ work so as to collect a second opinion on the validity of a technical assumption or professional judgment and the properness of exercising a discretion, etc.
How to prevent slippage in supervision

- Define personnel management policies and operational procedures and clearly communicate them to staff.
- Ensure an optimum number of subletting tiers to facilitate site and project control.
- Segregate staff duties properly with appropriate checks and balances.
- Implement job rotation, where possible, to prevent staff from developing unnecessarily close relation with contractors/suppliers, etc. that may impair their objectivity and impartiality in performing duties.
- Require site staff to inform professional staff immediately when slippage occurs or when the work progress is likely to be adversely affected.
- Keep accurate site records regarding staff attendance, overtime claims, and other work records. All approved material samples and test samples should be properly secured against tampering.
- Conduct frequent site visits and random spot checks. For those works which are not capable of checks or measurement after job completion, prior checks should be secured to ensure quality. All results should be properly recorded for verification by senior staff.
- Ensure that only staff with adequate experience and qualifications are employed to perform specialist duties.
- Provide appropriate training to staff, including quality concepts, record-keeping, occupational safety, and anti-corruption legislation.
- Establish internal communication channels for staff to air their problems and report malpractices.
Chapter 4 What are the control measures

Ensure proper delegation of supervisory duties

- Make sure you have delegated the authority to a person who is sufficiently competent to carry out the associated responsibility.
- Conduct periodic review on delegation of authority.
- Don’t reduce the frequency of site visits and random spot checks by yourself after the delegation of supervisory duties to your subordinates.

How to handle privileged information

Implement proper access control

- Classify information into different security groups based on their risk exposure and degree of sensitivity. Classification should be reviewed regularly.
- Approve access rights on the basis of a practical application of the need-to-know, need-to-do, and need-to-use principles i.e. only those staff who have genuine need to use the information during the course of duty can have access to the classified information.
- Restrict access to computer information by using passwords and the passwords should be changed regularly.
- Set up an audit trail system for computer systems for identifying persons who have gained access to information in order to facilitate future investigations and access control monitoring.

Monitor release of information

- Provide clear guidelines on how to safe keep and handle release of classified information and on how to ensure computer security.
- Monitor release of information according to the need-to-know, need-to-do, and need-to-use principles.
- Obtain the employer’s and clients' authorization before disclosing confidential information relating to them.
How to avoid conflicts of interest

*Avoid favouritism*

- Treat all clients fairly. No preference should be given to particular clients, including your relatives and friends.

- Don't provide advice or assistance in official dealings based on confidential information communicated to you by your employers or clients. If there is such a request, you should refuse it and explain that it is against the codes of conduct imposed by your company and professional bodies.

- Don't testify as an expert witness if the case involves a conflict of your personal interest.

*Call for collective decision*

- Involve more than one officer to handle and make collective decisions for jobs vulnerable to malpractice, such as procurement of materials/services, selection and appointment of contractors/suppliers, tendering, and supervision of contractors’ work performance.

- Set up an ad hoc task group, if necessary, to make collective decisions for different aspects of a major project.

*Ensure proper management controls*

- Clearly communicate company’s policy on preservation of confidentiality to all levels of staff. Such policy should be reviewed regularly to assess its effectiveness in risk minimization.

- Alert staff of the serious consequences of leaking/abusing proprietary information.

- Require staff to sign agreements not to leak or misuse proprietary information during their employment and for a specific period after they have left the company, if necessary.
Avoid conflicting roles

- Declare to your employer and your clients any financial interest in any project, supplier, contractor or business, that are related to your official duties.

- Avoid accepting lavish and frequent entertainment or engaging in games of chance such as gambling with clients/suppliers/contractors, that may place you in a position of obligation to return a favour or lead to compromise of impartiality or embarrassment in official dealings.

- Avoid acquiring any investment or financial interest which may lead to a conflict of interest with your official duties.

- Avoid borrowing money from suppliers, contractors or companies with which you have official dealings.

- Don't take up paid or unpaid outside employment which may give rise to any actual or potential conflicts of interest with your official duties. If such conflicts cannot be avoided, you should first obtain the consent from your employer.

How to avoid unfair tendering

Call for competitive tender

- Adopt competitive tendering for better comparison of prices and service quality and therefore make it difficult to hide favouritism and corrupt motive.

- Evaluate tender price based on both price and non-price factors to ensure that the procurement can result in the best quality of project or services for the price paid, or the lowest price for the specified acceptable quality.
Set up transparent system for appointing contractors

- Formulate systematic and consistent procedures, with well-defined financial and decision-making authorities. Administrative guidelines and contract document should include appropriate warnings prohibiting bribery and the requirement of declaring any potential conflict of interest.

- Develop a list of approved contractors/suppliers for different works or supply of materials according to prescribed criteria and review it regularly. The listing criteria should be made known to all potential bidders in the call for registration.

- Invite only the pre-qualified contractors/suppliers on the approved list. Any addition or deletion should be carefully scrutinized.

- Make procurement requirements, rules and decision-making criteria readily accessible to all potential suppliers/contractors. Any additional information must be made available to all bidders concurrently.

- Set up a joint pre-tender meeting for bidders to enquire and discuss any project issues if necessary.

- Ensure that the opening of bids is witnessed and conducted independently and all decisions are properly recorded.

- Set up an independent panel e.g. tender board for selecting and approving tenders.

- Select contractors/suppliers on the basis of their qualifications, the merit of their offers and the pre-defined criteria in tender document.

- Keep tender documents and tenderers' information confidential before awarding contracts.

- Make sure arrangements for negotiated tenders are made known to all tenderers prior to the negotiation of bidding.
Chapter 4  What are the control measures

Set up counter-checking mechanism and conduct random spot checks

- Set up counter-checking mechanisms, e.g. involving more than one officer in contract negotiation process, procurement of materials, authorizing acceptance of goods on delivery, etc.

- Conduct frequent spot checks, including random inspections of product quality, quotations, receipts, procurement records, etc.

- Keep proper work records, e.g. quotations, contracts, etc. for random verification by senior staff.

Check contractors’ performance record

- Monitor and evaluate contractors’ performance regularly and immediately after the end of the contracts and ensure that the evaluation is properly recorded for reference in future tender invitations.

- Maintain periodical contacts with suppliers or contractors in order to provide a direct channel for them to express views or grievances. Such contacts would better be initiated by senior staff.

- Inform suppliers and contractors of the company’s policy to prohibit staff from engaging in corruption or other malpractices.
CHAPTER 5

Where to seek help
Chapter 5  Where to seek help

"Truly professional engineers infuse ethics into their decision making."

Vesilind & Gunn, 1998
Introduction

The Independent Commission Against Corruption (ICAC) and the Hong Kong Institution of Engineers (HKIE) provide a wide range of services to professional engineers for enhancing and maintaining a high standard of professional ethics.
How the ICAC can help

Developing corporate ethics programmes

Established under the auspices of the ICAC's Community Relations Department, the Hong Kong Ethics Development Centre can assist you in developing corporate ethics programmes which cater to the specific needs of your organization. Its services include:

- formulating or improving a corporate code of conduct and offering advice on how to implement the code effectively;
- strengthening a system of controls and work procedures to prevent bribery, fraud and other malpractices;
- developing training programmes for employees at different levels;
- organizing tailor-made seminars and workshops on corruption and fraud prevention;
- operating a resource centre which has over 1,000 local and overseas reference publications and audio-visual materials on business ethics; and
- publishing a half-yearly newsletter entitled *Ethics in Practice* which provides latest information on business and professional ethics.

Interested parties may contact the Centre or any ICAC Regional Office for assistance. (Addresses and telephone numbers are on P.68)
Providing consultancy services on corruption prevention

The Advisory Services Group of ICAC Corruption Prevention Department can offer private organizations expert advice on how to tighten up internal controls to minimize opportunities for corruption and malpractice.

For details of the services, please call 2526 6363 or fax your request to 2521 8479.

Providing corruption reporting and enquiry services

The Operations Department, the ICAC's investigative arm, is responsible for handling corruption complaints and enquiries in strict confidence. You may lodge a complaint or make an enquiry through the following channels:

**By phone:** 2526 6366 (24-hour service)

**By mail:** GPO Box 1000, Hong Kong

**In person:** ICAC Report Centre (24-hour service)
G/F, Murray Road Carpark Building
2 Murray Road, Central, Hong Kong

ICAC Regional Offices
# Addresses and telephone numbers of the Hong Kong Ethics Development Centre and ICAC Regional Offices

<table>
<thead>
<tr>
<th>Name of Office</th>
<th>Address</th>
<th>Telephone number</th>
</tr>
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<tbody>
<tr>
<td>Hong Kong Ethics Development Centre</td>
<td>1/F, Tung Wah Mansion 199-203 Hennessy Road Wan Chai, Hong Kong E-mail: <a href="mailto:hkedc@hkstar.com">hkedc@hkstar.com</a></td>
<td>2587 9812</td>
</tr>
<tr>
<td>ICAC Regional Office (Hong Kong West/Islands)</td>
<td>G/F, Harbour Commercial Building 124 Connaught Road Central Sheung Wan, Hong Kong</td>
<td>2543 0000</td>
</tr>
<tr>
<td>ICAC Regional Office (Hong Kong East)</td>
<td>G/F, Tung Wah Mansion 201 Hennessy Road Wan Chai, Hong Kong</td>
<td>2519 6555</td>
</tr>
<tr>
<td>ICAC Regional Office (Kowloon West)</td>
<td>G/F, Nathan Commercial Building 434-436 Nathan Road Yau Ma Tei, Kowloon</td>
<td>2780 8080</td>
</tr>
<tr>
<td>ICAC Regional Office (Kowloon Central)</td>
<td>G/F, 21E Nga Tsin Wai Road Kowloon City, Kowloon</td>
<td>2382 2922</td>
</tr>
<tr>
<td>ICAC Regional Office (Kowloon East/Sai Kung)</td>
<td>Shop No. 4, G/F, Kai Tin Building 67 Kai Tin Road Lam Tin, Kowloon</td>
<td>2756 3300</td>
</tr>
<tr>
<td>ICAC Regional Office (New Territories South West)</td>
<td>G/F, Foo Yue Building 271-275 Castle Peak Road Tsuen Wan, New Territories</td>
<td>2493 7733</td>
</tr>
<tr>
<td>ICAC Regional Office (New Territories North West)</td>
<td>No. 4-5 G/F, North Wing Trend Plaza 2 Tuen Shun Street Tuen Mun, New Territories</td>
<td>2459 0459</td>
</tr>
<tr>
<td>ICAC Regional Office (New Territories East)</td>
<td>G06-G13 G/F, Shatin Government Offices 1 Sheung Wo Che Road Shatin, New Territories</td>
<td>2158 5920</td>
</tr>
</tbody>
</table>

**Latest information on ICAC services**

ICAC Web Site: [http://www.icac.org.hk](http://www.icac.org.hk)
Support from the HKIE

The Hong Kong Institution of Engineers (HKIE) is the only statutory qualifying body for engineers in Hong Kong. It brings together engineers of different disciplines and aims to enhance their common good and to ensure that their practice maintains a high professional and ethical standard. The HKIE provides the following services:

- assessing engineering degree and higher diploma programmes in Hong Kong for accreditation purpose;

- guiding members to practise in accordance with the conduct requirements laid down in HKIE Rules of Conduct by organizing related education programmes, for instance, joining force with the ICAC to arrange seminars on professional ethics. They include "Managing Staff Integrity", "Being Ethical, Being Professional" and "How to Handle Dilemmas at Work";

- handling complaints against the improper conduct of members in accordance with HKIE Regulations for the Discharge of Complaints;

- organizing Continuing Professional Development (CPD) Courses for members on a regular basis. They include technical courses for different engineering disciplines and general courses on management, environmental concerns, legal matters, communications skills, etc.;

- organizing meetings, conferences and visits for exchange of technical information and ideas;

- publishing a monthly journal entitled Asia Engineer, a quarterly Group Proceedings and a technical journal entitled Transactions to keep members abreast of the latest developments in engineering; and

- liaising with engineering institutions worldwide for reciprocal recognition of members' qualifications.
Ways to contact the HKIE:

<table>
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<tr>
<th>Method</th>
<th>Contact Details</th>
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<tr>
<td>By phone</td>
<td>(852) 2895 4446</td>
</tr>
<tr>
<td>By fax</td>
<td>(852) 2577 7791</td>
</tr>
<tr>
<td>By mail</td>
<td>The Hong Kong Institution of Engineers</td>
</tr>
<tr>
<td></td>
<td>9/F Island Beverly</td>
</tr>
<tr>
<td></td>
<td>No. 1 Great George Street</td>
</tr>
<tr>
<td></td>
<td>Causeway Bay, Hong Kong</td>
</tr>
<tr>
<td>By e-mail</td>
<td><a href="mailto:admn@hkie.org.hk">admn@hkie.org.hk</a></td>
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</table>

For updated details of training courses, please refer to the Pink Pages of the *Asia Engineer* and the HKIE’s CPD web page at http://www.hkie.org.hk/cpd.htm.
Appendix I    Extracts of the Prevention of Bribery Ordinance

Extracts of the Prevention of Bribery Ordinance

I. Provisions governing the private sector

Section 9

(1) Any agent who, without lawful authority or reasonable excuse, solicits or accepts any advantage as an inducement to or reward for or otherwise on account of his –

   (a) doing or forbearing to do, or having done or forborne to do, any act in relation to his principal's affairs or business; or
   (b) showing or forbearing to show, or having shown or forborne to show, favour or disfavour to any person in relation to his principal's affairs or business,

shall be guilty of an offence.

(2) Any person who, without lawful authority or reasonable excuse, offers any advantage to any agent as an inducement to or reward for or otherwise on account of the agent's –

   (a) doing or forbearing to do, or having done or forborne to do, any act in relation to his principal's affairs or business; or
   (b) showing or forbearing to show, or having shown or forborne to show, favour or disfavour to any person in relation to his principal's affairs or business,

shall be guilty of an offence.

(3) Any agent who, with intent to deceive his principal, uses any receipt, account or other document –

   (a) in respect of which the principal is interested; and
   (b) which contains any statement which is false or erroneous or defective in any material particular; and
   (c) which to his knowledge is intended to mislead the principal,

shall be guilty of an offence.
(4) If an agent solicits or accepts an advantage with the permission of his principal, being permission which complies with subsection (5), neither he nor the person who offered the advantage shall be guilty of an offence under subsection (1) or (2).

(5) For the purposes of subsection (4) permission shall –

(a) be given before the advantage is offered, solicited or accepted; or
(b) in any case where an advantage has been offered or accepted without prior permission, be applied for and given as soon as reasonably possible after such offer or acceptance,

and for such permission to be effective for the purposes of subsection (4), the principal shall, before giving such permission, have regard to the circumstances in which it is sought.

II. Provisions governing dealings with public servants

1. Bribery of public servants

Section 4
(1) Any person who, whether in Hong Kong or elsewhere, without lawful authority or reasonable excuse, offers any advantage to a public servant as an inducement to or reward for or otherwise on account of that public servant's –

(a) performing or abstaining from performing, or having performed or abstained from performing, any act in his capacity as a public servant;
(b) expediting, delaying, hindering or preventing, or having expedited, delayed, hindered or prevented, the performance of an act, whether by that public servant or by any other public servant in his or that other public servant's capacity as a public servant; or
(c) assisting, favouring, hindering or delaying, or having assisted, favoured, hindered or delayed, any person in the transaction of any business with a public body,

shall be guilty of an offence.

(2) Any public servant who, whether in Hong Kong or elsewhere, without lawful authority or reasonable excuse, solicits or accepts any advantage as an inducement to or reward for or otherwise on account of his –
(a) performing or abstaining from performing, or having performed or abstained from performing, any act in his capacity as a public servant;
(b) expediting, delaying, hindering or preventing, or having expedited, delayed, hindered or prevented, the performance of an act, whether by himself or by any other public servant in his or that other public servant's capacity as a public servant; or
(c) assisting, favouring, hindering or delaying, or having assisted, favoured, hindered or delayed, any person in the transaction of any business with a public body,

shall be guilty of an offence.

(3) If a public servant other than a Crown servant solicits or accepts an advantage with the permission of the public body of which he is an employee being permission which complies with subsection (4), neither he nor the person who offered the advantage shall be guilty of an offence under this section.

(4) For the purposes of subsection (3) permission shall be in writing and –

(a) be given before the advantage is offered, solicited or accepted; or
(b) in any case where an advantage has been offered or accepted without prior permission, be applied for and given as soon as reasonably possible after such offer or acceptance,

and for such permission to be effective for the purposes of subsection (3), the public body shall, before giving such permission, have regard to the circumstances in which it is sought.

2. Bribery for giving assistance, etc. in regard to contracts

Section 5

(1) Any person who, without lawful authority or reasonable excuse, offers an advantage to a public servant as an inducement to or reward for or otherwise on account of such public servant's giving assistance or using influence in, or having given assistance or used influence in –

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4 The PBO was enacted before Hong Kong became a Special Administrative Region of the Mainland China. Subsequent legislation makes it clear that the term “Crown servant” is to be construed as a “servant of the Government of the Hong Kong Special Administrative Region.”
(b) the payment of the price, consideration or other moneys stipulated or otherwise provided for in any such contract or subcontract as aforesaid, shall be guilty of an offence.

(2) Any public servant who, without lawful authority or reasonable excuse, solicits or accepts any advantage as an inducement to or reward for or otherwise on account of his giving assistance or using influence in, or having given assistance or used influence in --

(a) the promotion, execution or procuring of; or
(b) the payment of the price, consideration or other moneys stipulated or otherwise provided for in,

any such contract or subcontract as is referred to in subsection (1) shall be guilty of an offence.

3. Bribery for procuring withdrawal of tenders

Section 6

(1) Any person who, without lawful authority or reasonable excuse, offers any advantage to any other person as an inducement to or a reward for or otherwise on account of the withdrawal of a tender, or the refraining from the making of a tender, for any contract with a public body for the performance of any work, the providing of any service, the doing of any thing or the supplying of any article, material or substance, shall be guilty of an offence.

(2) Any person who, without lawful authority or reasonable excuse, solicits or accepts any advantage as an inducement to or a reward for or otherwise on account of the withdrawal of a tender, or the refraining from the making of a tender, for such a contract as is referred to in subsection (1), shall be guilty of an offence.
4. Bribery in relation to auctions

Section 7
(1) Any person who, without lawful authority or reasonable excuse, offers any advantage to any other person as an inducement to or reward for or otherwise on account of that other person's refraining or having refrained from bidding at any auction conducted by or on behalf of any public body, shall be guilty of an offence.

(2) Any person who, without lawful authority or reasonable excuse, solicits or accepts any advantage as an inducement to or reward for or otherwise on account of his refraining or having refrained from bidding at any auction conducted by or on behalf of any public body, shall be guilty of an offence.

5. Bribery of public servants by persons having dealings with public bodies

Section 8
(1) Any person who, without lawful authority or reasonable excuse, while having dealings of any kind with the Government through any department, office or establishment of the Government, offers any advantage to any Crown servant employed in that department, office or establishment of the Government, shall be guilty of an offence.

(2) Any person who, without lawful authority or reasonable excuse, while having dealings of any kind with any other public body, offers any advantage to any public servant employed by that public body, shall be guilty of an offence.

III. Interpretation

Section 2
"Advantage" means –

(a) any gift, loan, fee, reward or commission consisting of money or of any valuable security or of other property or interest in property of any description;

See footnote 4. "Government" is to be construed as referring to the "Government of Hong Kong Special Administrative Region".
(b) any office, employment or contract;

(c) any payment, release, discharge or liquidation of any loan, obligation or other liability, whether in whole or in part;

(d) any other service, or favour (other than entertainment), including protection from any penalty or disability incurred or apprehended or from any action or proceedings of a disciplinary, civil or criminal nature, whether or not already instituted;

(e) the exercise or forbearance from the exercise of any right or any power or duty; and

(f) any offer, undertaking or promise, whether conditional or unconditional, of any advantage within the meaning of any of the preceding paragraphs (a), (b), (c), (d) and (e),

but does not include an election donation within the meaning of the Elections (Corrupt and Illegal Conduct) Ordinance (10 of 2000), particulars of which are included in an election return in accordance with that Ordinance.

"Entertainment" means the provision of food or drink, for consumption on the occasion when it is provided, and of any other entertainment connected with, or provided at the same time as, such provisions.
GUIDELINES

Contained within the Ordinance, Constitution, Regulations and Rules of the Institution are Rules of Conduct which are binding on the members of the Institution. These Guidelines are to assist members with the interpretation and implementation of the Rules.

Rule 1 Responsibility to the Profession

A member of the Institution shall order his conduct so as to uphold the dignity, standing and reputation of the Profession.

In pursuance of this rule a member shall, inter alia:

1.1 discharge his professional responsibilities with integrity, dignity, fairness and courtesy;
1.2 not allow himself to be advertised in self-laudatory language nor in any manner derogatory to the dignity of his profession, nor improperly solicit professional work for himself or others;
1.3 give opinions in his professional capacity that are, to the best of his ability, objective, reliable and honest;
1.4 take reasonable steps to avoid damage to the environment and the waste of natural resources or the products of human skill and industry;
1.5 ensure adequate development of his professional competence;
1.6 accept responsibility for his actions and ensure that persons to whom he delegates authority are sufficiently competent to carry out the associated responsibility;
1.7 not undertake responsibility which he himself is not qualified and competent to discharge;
1.8 treat colleagues and co-workers fairly and not misuse the advantage of position;
1.9 when working in a country other than Hong Kong order his conduct according to the existing recognised standards of conduct in that country, except that he should abide by these rules as applicable in the absence of local standards;
1.10 when working within the field of another profession pay due attention to the ethics of that profession.
Rule 2 Responsibility to Colleagues

A member of the Institution shall not maliciously or recklessly injure nor attempt to injure whether directly or indirectly the professional reputation of another engineer, and shall foster the mutual advancement of the profession.

In pursuance of this rule a member shall, inter alia:
2.1 where appropriate seek, accept and offer honest criticism of work and properly credit the contributions of others;
2.2 seek to further the interchange of information and experience with other engineers;
2.3 assist and support colleagues and engineering trainees in their professional development;
2.4 not abuse his connection with the Institution to further his business interests;
2.5 not maliciously or falsely injure the professional reputation, prospects or practice of another member provided however that he shall bring to the notice of the Institution any evidence of unethical, illegal or unfair professional practice;
2.6 support the aims and activities of the Institution.

Rule 3 Responsibility to Employers or Clients

A member of the Institution shall discharge his duties to his employer or client with integrity and in accordance with the highest standards of business ethics.

In pursuance of this rule a member shall, inter alia:
3.1 offer complete loyalty to his employer or client, past and present, in all matters concerning remuneration and in all business affairs and at the same time act with fairness between his employer or client and any other party concerned;
3.2 avoid engaging in business, investments or activities which conflict with the interests of his employer or client, and inform his employer or client in writing of any possible conflict between his own financial interests, or those of his immediate family, and the interests of his client or employer;
3.3 not accept any financial or contractual obligation on behalf of his employer or client without their authority;

3.4 where possible advise those concerned of the consequences to be expected if his engineering judgment, in areas of his responsibility, is overruled by a non-technical authority;

3.5 advise his employer or client in anticipating the possible consequences of relevant developments that come to his knowledge;

3.6 neither give nor accept any gift, entertainment, payment or service of more than nominal value, to or from those having a business relationship with his employer or client without the consent of the latter;

3.7 where necessary co-operate with or arrange for the services of other experts wherever an employer's or client's interest might best be served thereby;

3.8 safeguard confidential information in relation to his employer or client and not disclose such information to third parties without his employer's or client's written consent. A member shall not receive any gift, entertainment, payment or service from third parties for disclosing such information nor make use of it for personal gain.

### Rule 4  Responsibility to the Public

A member of the Institution in discharging his responsibilities to his employer and the profession shall at all times be governed by the overriding interest of the general public, in particular their environment, welfare, health and safety.

In pursuance of this rule a member shall, inter alia:

4.1 seek to protect the safety, health and welfare of the public;

4.2 when making a public statement professionally, try to ensure that both his qualification to make the statement and his association with any benefiting party are made known to the recipients of the statement;

4.3 seek to extend public understanding of the engineering profession;

4.4 seek to assess the environmental consequences of work for which he is responsible and to influence events so as to prevent or minimise damage to, and if practicable to improve, the environment.
In particular in the exercise of the requirement to safeguard the public in matters of welfare, health and safety, engineers should:

a) strive to create through their projects a healthy and agreeable outdoor and indoor environment;

b) aim to minimise the use of non-renewable resources, to conserve energy and to minimise the generation of waste;

c) consider and take into account the consequences of any proposal upon public health and local custom;

d) assess the impacts of their proposals upon the environment, and select options that will ensure sustainable development;

e) consider and explain in their proposals the measures required to protect and improve the environment;

f) promote the concepts of interdependence of ecosystems, maintenance of the diversity of species, resource replacement and recovery, and sustainable development;

g) seek to balance costs with the best benefit to the environment and to human society, to achieve the most suitable practical environmental option, by utilizing the best available technology and techniques without entailing excessive cost;

h) encourage management to follow positive environmental policies by recognizing that a statement of intent is not sufficient to achieve legislative compliance.
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7. "Model Code of Ethics", speech by Donald G. Laplant, WFEO Vice President, 22.10.1993


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19. *Rules of Conduct*, The Hong Kong Institution of Engineers
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