A Management Training Game for Police Command/Control Officer Training

Summer 1972

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A MANAGEMENT TRAINING GAME FOR POLICE COMMAND/CONTROL OFFICER TRAINING

BY

CHARLES R. CUSTER

A Thesis Presented in Partial Fulfillment of the Requirements for the Degree Master of Science

FLORIDA TECHNOLOGICAL UNIVERSITY

August 1972
TO BECKY,

who need not always
understand what I do
in order to know why I do it
ACKNOWLEDGEMENTS

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Dr. Robert D. Doering
Dr. George F. Schrader,

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Mary Clark
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CHAPTER 1
INTRODUCTION

1.1 The Role of Command and Control in Police Operations

Command and Control is typically a military terminology for the activities associated with planning, direction and control of operations. A Command/Control System in turn can be defined as "An organization of personnel and facilities to perform the functions of planning, situation intelligence force status monitoring, decision making and execution" (1). All operations management whether industrial, military or law enforcement require some type of Command/Control System to perform these functions.

In most police departments, the Command/Control System is physically located in the Communications Center which is the focal point of all public calls and other inputs to the system. The Center houses the personnel and equipment necessary to receive and integrate all information pertaining to routine or emergency situations and control and coordinate the men and equipment needed to respond to the situation. Personnel typically include complaint officers to receive the incident calls, dispatchers to assess the force status situation and assign the necessary response and radio operators to communicate with the field forces. The communications system consists of an integrated network of radio circuits and land lines linking the Center with the public, the department forces and other law enforcement agencies. Key components
in a manual system are phone lines, VHF/UHF radio and control console, teletype links to other agencies, a force status display board, and a computer information display terminal. A computer augmented system would include the capability of integrating all pertinent information on a complaint call with information as to which is the nearest available patrol vehicle and then automatically dispatching the unit via digital communication upon approval of the dispatch officer.

Figure 1 is a simplified functional block diagram of the Basic Command/Control Process. The diagram defines the relationship of the functions necessary to discharge a command responsibility and the importance of dynamic feedback from the field to control and respond effectively. The commander must know the dynamic environment in which the forces are operating as well as the plans, procedures and capabilities of his command. The threat is the forcing function on the system. Unfortunately it cannot be evaluated until after the complaint call is completed, and the information must then be integrated into the overall tactical situation for analysis and decision of the type of response. Once the decision has been made it is executed by dispatch of field forces. As the forces respond it is vital that the commander monitor the field operations and use this information to update his estimate of the current situation and respond accordingly.
Figure 1: Functional Block Diagram or Basic Command/Control Process Shows its Dependency on a Closed Loop Feedback System.

Any Command/Control operation must have the inherent capability of rapid and complete information assembly, decision making and of execution. In the police apprehension process, for example, studies (2) of the Los Angeles Command/Control System showed that the Communications Center delay accounted for 30 to 50% of the total response time on
emergency calls. Here response time is defined as the period from receipt of the call until the patrol vehicle arrived at the complaint site. It is apparent that speeding up the Command/Control process offers an effective method of improving the effectiveness of a police apprehension system. An effective Command/Control System is a vital part of both citizen and police safety.

1.2 Functional Analysis of OPD Command/Control Operations

The Orlando, Florida Police Department (OPD) was selected for detailed functional analysis of Command/Control Operations to determine the need and applicability of training. It was determined that in order to discharge its mission, the Command/Control Center must interface with the General Public, all police functions within the City of Orlando and other law enforcement and Public Safety Agencies. In addition there are a number of operational modes to be considered which add to the complexity of the system. Each interface may require a different response from the Center. For example, the actions may include giving watch personnel assignments, calling an ambulance, answering questions on laws, relaying information and dispatching police units. Each response may involve one or more components of the Command/Control System which must work in unison to perform the function. An operational flow chart of the OPD Command/Control section is provided for reference in Appendix A. Although procedures exist, they clearly cannot cover all situations and required actions. It is possible to categorize the response by type of operational mode required. Accordingly, four operational modes were defined and have been used to analyze the
Command/Control Operations. The result was a functional analysis which described the actions of components in the system, given a specific operational mode. The operational modes are listed in Table 1 together with their definitions.

**TABLE 1**

**DEFINITIONS OF SELECTED OPERATIONAL MODES FOR THE COMMAND/CONTROL SYSTEM**

- **Routine mode** - normal nonemergency and/or general daily operation of Command/Control System which does not result in a case or file number.

- **Incident mode** - those daily operations which would result in a case number being required, but which did not include any personal injury or require more than one regular patrol unit to answer call.

- **Emergency mode** - those operations which arise from incidents requiring response by more than one regular patrol unit, personal injury and/or in progress crimes.

- **Internal mode** - those periodic operations or functions which are unique to the several subsystem operations involved in the Command/Control System.

The first operational mode is termed Routine. This mode includes normal daily activities which do not result in a permanent case or file number being required. The Complaint Desk action include answering an information request on a call that requires a 602-09 form. The routine functions of the Teletype Operator would be a query to NCIC or FCIC and find a negative response to the questions. The Radio Operator's routine operational mode require monitoring the assigned channels and transmitting 602-09 assignments. Interactions between the Command/Control Center and the Uniformed Field Units exists in the Routine Mode.
The Incident Mode does not differ significantly from the Routine. The 602-03 form is completed by the Complaint Officer however, which creates a permanent Police file on the incident. In the Incident Mode a crime has been committed or a suspect arrested. The functional responsibility for clearing the case is with the Field Unit and the responsibility for dissemination information in aid of the unit is with the Command/Control Center.

Whenever an in-progress crime is reported, or a "unit-needs-assistance" call is received or any personal injury is reported all sections of the Command/Control and Field Forces assume the Emergency Operational Mode. This mode may be initiated at the Command/Control Center or Field Unit may be on patrol and witness an armed robbery, a citizen may require an ambulance, or a routine identification check may result in hot pursuit when the on scene unit would require assistance. The Emergency Mode requires close interaction between the Command/Control Center and the Field Force.

The final mode requires no interaction between the sections of the Command/Control System. The Internal Mode is comprised of operations or tasks which are unique to the subsystem involved.

1.3 The Complaint Desk Officer

The Complaint Desk Officer is the primary interface between the Police Department and the general public. His ability to obtain the required information quickly and tactfully contributes directly to the success of the Police Department in its primary mission.

The primary input which begins the Complaint Officer's functional
description is a telephone call. Telephone calls from the general public account for approximately half of all the calls answered by the Complaint Officer. The remaining calls are from other activities within the police department and other law enforcement agencies such as the Florida Highway Patrol and Orange County Sheriff's Department.

The general public calls the Police Department when it needs emergency aid, wishes to report a crime or suspicious activity, or many times simply desires information. In Orlando the Police Department emergency number is on the front inside cover of all telephone directories and on every marked patrol unit. Dialing this number will automatically place the caller in contact with a Complaint Officer at the Command/Control Center. Although the caller may never see this officer, his very life could depend on the officer's decisions and actions. To this citizen the Complaint Officer is the Police Department; how he conducts himself over the phone will be equated with the actions of all uniformed police.

Until it is determined otherwise, a call to the Complaint Officer's desk must be considered an emergency. The call must be answered, information obtained, all requisite forms completed and a patrol unit dispatched if required, within the shortest possible time. How the information is obtained is based on training and experience, but the same general information is required of every incoming call before any decisions may be made.

The Complaint Officer must determine:

. Name and location and telephone number of the caller;
. Location of the incident;
Nature of the call, that is, to report a crime or disturbance, to report an accident, or to request information;

Names of any involved persons;

Whether the call required immediate or emergency assistance, such as an ambulance.

With this information the Complaint Officer determines if the location of the need is within the Orlando Police Department jurisdiction, whether a patrol unit should be sent, an ambulance or other assistance should be dispatched, and if a case number for a permanent police record is required. These decisions may have to be made for all incoming calls, although the order in which they are made vary by Complaint Officer.

If a call comes into the Complaint Desk where the Orlando Police Department has no jurisdiction, the Complaint Officer may either record all the information and then relay it to the appropriate agency, or the Complaint Officer may interrupt and give the caller the telephone number of the appropriate agency if it is a non-emergency call.

If a call does require a police unit, the complaint officer will complete either a 602-09 or a 602-03 form. These forms summarize the information pertinent to the call and enable the complaint officer to indicate the patrol district and patrol unit to be assigned if available. The 602-09 form is completed when it is anticipated that a police record will not be required. The 602-03, however, has a sequenced record number in the top right corner and is completed when a police report file will be created on the incident. When either form is used, the time of day and date is electronically stamped on the card before it
is deposited in a conveyer belt, which transports it to the Radio Operator.

Table 2 lists the Complaint Officer's responsibilities and shows that he has duties other than answering the telephone. All "messages" or "local-look-outs" must be approved by the Complaint Officer. This is done to minimize the broadcasting repetitive information on the field units. He is also responsible for informing owners of businesses where burglaries have been attempted, and notifying other law enforcement agencies of the incident which could effect communities outside of Orlando. He is the advisor as to which units to dispatch and the source of information to the field unit relative to pertinent information on the incident, such as the general mood of the caller. The Complaint Officer interfaces with all other functions within the Command/Control Center, the Orlando Police Department, other safety agencies and the general public. He is the focal point of force status and complaint information which is the head of the Command/Control operation. Figure 2 relates the Complaint Officer's functional process and also it depicts those functions covered by the training game.

**TABLE 2**

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<th>LIST OF FUNCTIONS PERFORMED BY COMPLAINT OFFICER IN DISCHARGING HIS RESPONSIBILITIES</th>
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<td>Monitor and answer all phone extensions within a specific number of rings</td>
</tr>
<tr>
<td>Ascertain nature of call</td>
</tr>
<tr>
<td>Ascertain jurisdiction</td>
</tr>
<tr>
<td>Determine the nature of assistance required</td>
</tr>
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</table>
TABLE 2 -- Continued

- Complete 602-03 or 602-09
- Locate district in which report pertained
- Record time received and time given to radio operator
- Complete 602-03 from field request
- Contact responsible persons of burglar alarms or reported B & E's at their place of business
- Notify law enforcement agencies of serious crimes
- Complete "Local-Look-Out" form from T/T or phone information
- Sign T/T "Message" forms for broadcast
- Contact local news media of information for broadcast to public to assist police

1.4 Need for Improved Training Methods

The current training technique of new Complaint Desk personnel, both civilian and officer, involves on-the-job training without defined training procedures. Over the past two year period a total of ten civilians have been hired as Complaint Desk Clerks. During this period five have terminated, two have transferred to other sections within the OPD, and three have remained at the same job. The employment period of the five which terminated ranged from three to five months.

Officers are assigned to the Complaint Desk on six month tours of duty. The average length of time for an officer to become proficient is three months, civilians four to six months. The difference can be attributed to the officer's field experience. The civilians tend to become frustrated after three to four months because of their lack of training which accounts for the high turnover. Some officers have
COMPLAINT DESK

OPERATIONAL FLOW CHART

The flow chart below depicts that portion of the Complaint Desk operation which the Game is simulating to evaluate the examinee effectiveness. The diamond shaped blocks represent important decision points for the examinee.

Figure 2: Flow Diagram of Complaint Officer's Function
experienced discontent with their assignment because of the sedentary characteristics of the job.

There is an apparent need for improved training methods. On-the-job training can be an effective method if it is supported by classroom instruction. A major draw-back, though, is that it requires the others in the Control Center to devote their time and attention away from their job which tends to decrease the overall effectiveness of the Center.

It is upon the dire need of more effective Command/Control training that this research is undertaken.

1.5 Scope of the Study

A training game model is defined which will provide effective training and testing for the Complaint Desk functions within Command/Control Operations. Analysis is made of appropriate Complaint Desk functions to arrive at a qualification profile for future personnel selection. Grading criteria and performance standards are defined which support the game in achieving its objective. A physical facilities layout and equipment selection are described, which are needed in executing the game. Future applications of the game are researched.

1.6 Objective of the Study

The objective of the study is three-fold:

1. To provide a training game model which will effectively train and test new personnel in Complaint Desk operations.

2. To provide a training game model which will also upgrade the decision capabilities of existing
personnel.

3. To provide the logic for computerizing the training for future applications.
CHAPTER 2

COMPLAINT OFFICER TRAINING GAME

2.1 Operating Game Model

The training model can best be described as a system where the Complaint Desk Officer (examinee) is a transform function who acts on a given input within a selected environment to produce a desired output. This concept is illustrated in Figure 3. The block diagram views the training model as a system and shows the sequence of interrelated activities combined to result in a performance effectiveness rating for the examinee. In this model a phone call to the examinee is the input which triggers the system into operational response. The phone call is made by the game instructor and/or his assistant(s) who are simulating a complaint in a typical situation. The complainant's phone call will be governed by the help of experienced Complaint Desk personnel. The typical situation scenario contains the following information: detailed scenario has been included in Appendix B for reference.

- Type of incident for which the phone call is being made, i.e. robbery, auto accident, etc.;
- Description of the caller and his characteristics, such as white female, intoxicated, voice is soft, raspy, speech is incoherent, with hostile attitude;
- Description of the incident, in detail, which the
The procedural steps involved in the solution of that situational incident which should be followed by the examinee;

- Copy of the correctly completed form(s) which the situation would require in the real-life environment. These would be used to grade the examinee form(s);
- Performance standards and evaluation sheet for grading the examinee performance on that situation.

The examiner, or instructor, would be selected by the OPD Training Officer from the Command/Control personnel based on his expertise and competence. The instructor is responsible for maintaining a confidential examinee file and directing the execution of the game situation according to the instructions in the situation scenario. During the game he would be positioned at a point behind a two-way mirror in the game control room. The examinee file consists of the examinee qualification profile, a list of the previous training situations which he has taken along with the respective evaluation sheets. A chart showing the scores from previous game sessions would also be maintained to indicate the relative increase or decrease in game performance.

The instructor may be assisted by up to three personnel at any one examination session depending upon the complexity of the situations to be administered. These assistants need not be personnel experienced in
Command/Control but would be selected on their ability to imitate, according to written instructions, various types of callers (complain-ants).

Execution of a game session will begin with the seating of the examinee in the Examination Room adjacent to the Control Room. The instructor would then provide him with a brief orientation on the equipment he will be using and the criteria on which he will be graded, such as speed, accuracy, decision making ability, and tactfulness. The instructor will not reveal any other information. The examinee will be provided with text describing the operational environment. The model Force Status Board will reflect the field situation of the time of the incident sequence. After the examinee has observed the situational information, the game will commence with a call from the instructor. The exercise will cease when the examinee has completed all forms and actions on the sequence of calls. Upon completion of the battery of situations, the examinee will remain in the area until their evaluation has been completed. A post game analysis will then be conducted by the instructor during which the examinee will be appraised of his mistakes and their corrections, and reenforced on his efficiencies. The logic flow is shown in Figure 4.
Figure 3: The Block Diagram of the Operation Training Model As a System Shows The Interrelated Activities of the Participants

2.2 Qualification Profile For The Complaint Officer

The Training Game addresses not only the efficiencies of the Complaint Desk Personnel but also the techniques of training to improve deficiencies. In order to accomplish these objectives a qualification profile for the Complaint Desk Office was established. The profile consists of three separate areas - physical, formal training and psychological. On this basis both the qualification and performance of the candidates can be determined and related. For example, only on the basis of knowledge of the input as well as output of the system can the
Figure 4: Logic Flow of the Operational Training Game
performance be evaluated correctly. It is also important in determining the training program which would be most effective in preparing a candidate for the position.

The basic motor abilities requisite for the Complaint Desk Officer include sight, hearing and writing ability, all performed in a sedentary capacity. He should have sufficient eye sight to read relatively small print (i.e., pica type) under normal office lighting. His hearing must be normal since no hearing aid is permitted. He also must be capable of writing legibly and needs only one arm since telephone headsets can be used. He must be capable of getting up and moving across the room rapidly although most of the work is in a sitting position. The long hours in a sitting position require both a physical and mental adaptation.

Through discussions with Command/Control administrative personnel and the Training Officer, it was determined that officers graduated from the academy will have had sufficient course work in preparation for the Complaint Desk function, but civilian candidates should be required to attend certain courses from the academy. These courses are outlined in Table 3 and described in Appendix C in more detail cover approximately 40 hours of classroom instruction.

Psychologically the profile of the Complaint Officer was determined in terms of how he would function in a general situation which included the environmental stimuli of the Complaint Desk position. This individual should exhibit the characteristics of extroversion, be a realist in sizing up the situation and rely heavily on logic in making his decisions. A final asset would be the ability to accept the events
as they unfold rather than trying to control the situation. This last characteristic differs from the typical uniformed officer who prefers to exert control over the events in a given situation.

In more personality oriented terms these characteristics in combination imply that the person is an adaptable realist, who good-naturedly accepts and uses the facts around him, whatever they are. He notices and remembers more than others. He knows what goes on, who wants what, who does not, and generally why, and does not fight those facts. He possess a kind of effortless economy in the way he handles a situation.

The Extraverted Sensing person is also a perceptive type. He searches for the satisfying solution instead of defying others and imposing his own ideas, and people generally like him well enough to consider any compromise that he presents feasible. He is open-minded and generally tolerant, patient, and easygoing. He enjoys life and he does not allow himself to get emotionally "hung-up" on day-to-day problems. Therefore, he is capable of easing a tense situation and pulling conflicting factors together.

Due to this person's sensing ability, he has a capacity for handling exact fact, even when separate and unrelated, and the ability to absorb, remember and apply great numbers of them. Also, in a sensing type you find a continuous awareness, an ability to see the need of the moment and turn easily to meet it. Since he is in essence a realist, he retains more from first-hand experience than from books, is more effective on the job than on written tests.

Having a thinking characteristic implies the person has a better
grasp of underlying principles, and finds it easier to master the theoretical side of things.

There are a number of ways in which an individual's psychological profile can be determined. There are written examinations available one of which is the Myers-Briggs Type Indicator (3) which is designed to determine an individual's preferred mode of functioning in terms of types as defined by Carl Jung (4).

**TABLE 3**

POLICE ACADEMY COURSE REQUIREMENTS FOR COMPLAINT DESK PERSONNEL

- Introduction to law enforcement
- Ethics and professionalization
- How to find the law
- Public relations
- Human relations
- Police and minority groups
- Social agency services
- Domestic complaints
- Prowler and disturbance calls
- Constitutional law
- Criminal law

2.3 **Performance Evaluation Criteria**

Performance measures are requisite for successful management of any system. They provide the means to measure system output so that it can be compared to set objectives and corrective action taken to ensure
meeting these objectives. In the case of the Complaint Officer function this is a difficult task since it requires measurement of cognitive action. These actions are typically associated with decision making capability and consequently cannot be measured directly. Indirect measures are required which will indicate the relative performance. In addition it must be recognized that each evaluation criteria selected must also be assigned a relative value which it contributes to the overall performance.

Accordingly, the general approach was to initially observe the operation and detect factors which might be measurable and provide a good indication of actual performance. This information was augmented by interview of the Complaint Officers and their supervisory personnel to determine what factors they considered were important to discharge the responsibility of the Complaint Officer function. The resulting factors were analyzed and four selected; these are listed in order of their relative importance in Table 4.

The objectives of the criteria are twofold. Initially they were designed to rate the relative effectiveness of Complaint Officer personnel performance. In addition, measurement based on these criteria was designed to promote training in individual or combined evaluation criteria. In this context the trainee is provided the opportunity of practicing the exercise sets which examine the area in which he feels deficient.

Information Accuracy is the most important category. If the information obtained from a complaint call is inaccurate or incomplete, the dispatched orders could result in creating a serious or emergency
situation. Information extraction can become a complex process because of the physiological state of the complainant during his telephone conversation with the Complaint Desk clerk; example states are intoxication, hysteria, ethnic dialects, and speech impediments. The degree of difficulty is frequently increased by verbal abuse exhibited by the complainant. The various elements of information which must be extracted include incident description, name of complainant, and address of incident. A more detailed description of the necessary information will be discussed later. Form Completion Time is an important measurement of effectiveness. This is especially true since one of the primary objectives of the Command/Control system is to minimize response time for a complaint call. Therefore it is important for the examinee to develop a sense of timeliness in his information gathering.

The Decision Capability will evaluate the examinee's ability to determine the type of call he is handling, which affects the amount of information to be gathered, and his ability to apply the proper procedure for selecting the field unit(s) for response. There are four types of calls which the examinee must be capable of recognizing to ensure selection of the correct procedure for handling that particular type call. These are keyed to the Operational Modes of Routine, Incident, Emergency, and Internal. Upon identification of the type of call, the Complaint Officer must then make a decision on the procedure to be followed and the necessary unit assignments.

Although Tact is listed last, it is also very important. This is a subjectively evaluated criteria to measure the ability to successfully
handle difficult situations presented by the complainant.

Each of the four performance measures must also be weighted according to their relative importance in the overall function to the Complaint Desk Officer in order to derive an overall performance evaluation.

### TABLE 4

**LIST OF PERFORMANCE EVALUATION CRITERIA FOR COMPLAINT OFFICER POSITION**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Description</th>
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<tbody>
<tr>
<td>Form Completion Time</td>
<td>Quantitative measure of the total elapsed time between the time of the first telephone ring and the form (602-03, 09) is completed or unit dispatch is initiated; whichever comes first.</td>
</tr>
<tr>
<td>Information Accuracy</td>
<td>Measure based on the number of discrepancies between the information given by the complainant and the information listed by the examinee.</td>
</tr>
<tr>
<td>Decision Capability</td>
<td>This is a measurement of the examinee's ability to determine which type of call he is handling in order to extract the necessary information and also his ability to decide on the proper field unit assignment.</td>
</tr>
<tr>
<td>Tact</td>
<td>Measurement of the examinee's ability to tactfully handle difficult situations presented by the complainant. It will be scored by experience personnel listening to the conversation and evaluating subjectively the method by which the examinee elicits information from a hostile or confused complainant.</td>
</tr>
</tbody>
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### 2.4 Weighting of Performance Criteria

The performance of a Complaint Officer has been defined as a function of a number of criteria the sum of whose individual ratings...
determine the over-all performance rating. This performance value function must also recognize that each individual criteria typically contributes a different amount to the total performance. Mathematically this could be expressed,

\[ V_{\text{performance}} = \sum_{i=1}^{n} f(x_i) X_i \]

where \( V \) is the total performance rating,

\( X \) identified the individual performance criteria,

\( f(x_i) \) is the weighing or relative value contributed by each criteria, so that, \( \sum_{i=1}^{n} f(x_i) = 1.0. \)

\( n \) is the number of criteria

The validity of this approach hinges on identifying all criteria contributing significantly to the performance and defining them in such a way that they are independent. In addition some method of assigning the relative importance or weight to each must be devised.

Three methods of "weighting objectives" were examined prior to determining the appropriate weight distribution. The first technique is described by C. West Churchman (5). His procedure fundamentally consists of a systematic check on relative judgments by a process of successive comparisons (the application of Churchman's procedure has been included in Appendix D for reference). Operationally, this method involves the programmed questioning of an individual's personal weighting of the criteria involved. He is subjected to two tests, or sets of questioning. Initially the individual assigns tentative
weighting quantities between 0.00 and 1.00 to the criteria. He is then presented with questions about his preferences involving combinations and/or exclusions of criteria. For example would he weight criteria A or the combination of B, C, and D, higher. A similar comparison is then conducted using B versus C and D, etc., until all pertinent combinations have been considered. The method includes the means for revising the individuals first biased weighting assignments. The results using the Churchman method with the Complaint Officer judgments are listed in Table 5.

The second method applied to the data was a technique devised by M. Eugene Nightengale (6) (application of the method is shown in Appendix E). This technique was developed by Nightengale to aid in making decisions under uncertainty. His purpose was to remove some of the uncertainty from the decision process by utilizing the opinions of experts. The method begins by asking each "expert" to subjectively rank each criteria in order of decreasing importance. According to Nightengale, the responses are assumed to form a normal distribution. The percentage of times criteria, \( X_i \), is ranked more likely to occur than criteria, \( X_j \), is transformed, with the use of the normal probability distribution, into standard measurements of separation. This is then used to generate a relative importance weighting for each criteria. The results of applying Nightengale's method are also listed in Table 5.

The third method explored was the arithmetic averaging of the relative weights assigned by experts.

Table 5 shows that all three methods assign very similar weight distributions. Although all methods produce comparable results...
Nightengale's was selected on the basis that it was the most appropriate for this particular case.

The three sampled experts were shown the results and each expressed satisfaction with the final weightings. In general they felt that the values coincided with their own a priori opinion concerning the relative importance of the criteria.

### TABLE 5
**PERFORMANCE CRITERIA WEIGHTING VALUES, BY METHOD OF DEVIATION**

<table>
<thead>
<tr>
<th>Resulting Weight Distribution</th>
<th>Churchman Method</th>
<th>Nightengale Method</th>
<th>Averaged Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Accuracy</td>
<td>.28</td>
<td>.35</td>
<td>.32</td>
</tr>
<tr>
<td>Form Completion Time</td>
<td>.25</td>
<td>.30</td>
<td>.25</td>
</tr>
<tr>
<td>Decision Capability</td>
<td>.24</td>
<td>.20</td>
<td>.22</td>
</tr>
<tr>
<td>Tact</td>
<td>.23</td>
<td>.15</td>
<td>.22</td>
</tr>
<tr>
<td>Total</td>
<td>1.00</td>
<td>1.00</td>
<td>1.01</td>
</tr>
</tbody>
</table>

### TABLE 6
**ASSIGNED WEIGHTS FOR CRITERIA BY COMPLAINT DESK OFFICER**

<table>
<thead>
<tr>
<th>Assigned Weight</th>
<th>Expert 1</th>
<th>Expert 2</th>
<th>Expert 3</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Accuracy</td>
<td>.30</td>
<td>.35</td>
<td>.30</td>
<td>.317</td>
</tr>
<tr>
<td>Form Completion Time</td>
<td>.20</td>
<td>.30</td>
<td>.25</td>
<td>.250</td>
</tr>
<tr>
<td>Decision Capability</td>
<td>.30</td>
<td>.20</td>
<td>.25</td>
<td>.217</td>
</tr>
<tr>
<td>Tact</td>
<td>.20</td>
<td>.15</td>
<td>.20</td>
<td>.217</td>
</tr>
<tr>
<td>Total</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.001</td>
</tr>
</tbody>
</table>
2.5 Establishing Performance Standards

Performance standards are an important part of any job description and subsequent testing procedure. In addition the standards must be specifically defined so that they can be measured and statistically reproduced under controlled conditions. It is not enough, for example, to state that a Complaint Officer must be an efficient data gatherer. How fast must he extract information to be efficient? What specific information is needed? Performance standards must be stated in explicit quantitative terms to effectively evaluate the level of performance of an examinee.

The maximum possible points that can be achieved on any given situation is 100. The weighting scale previously established was used to factor the points achieved to arrive at the possible points of each evaluation criteria. Table 6 shows the points assigned to each criteria on this basis and the scoring techniques to be used in grading the examinee. Each situation was devised in conjunction with a committee of proficient Complaint Desk personnel. This committee effort included design of several situation scenarios and their alternate performance standards. Performance standards may vary slightly with the degree of complexity of a game situation, but generally adhere to the guidelines discussed here.

Information Accuracy standards were established for each situation and all necessary data entries defined were determined jointly by the committee. The total number of necessary data entries plus one, for selection of the correct format, were assigned equal value points which total 35, the possible score for the criteria. If a data entry is
omitted or incorrect, the examinee receives zero points for that item.

The standards for Form Completion Time were determined by testing at least four proficient Complaint Desk personnel (excluding committee members) against a newly designed situation. The recorded times were then used to establish a standard by finding the statistical estimated population mean \( \mu \) and standard deviation \( \sigma \). The grading scale was designed such that a recorded time of less one standard deviation above the mean time will give the examinee a maximum score of thirty points. For each additional standard deviation above the mean the examinee will be penalized ten points up to a maximum of three standard deviations.

The Decision Capability standards for each situation were established based on the necessary decisions the examinee should make in that real-life situation. These decisions are those which would affect the successful outcome of the dispatched unit, or units. Each decision was weighted according to its relative importance with the sum of the assigned weights equal to 20. The weighting to reflect the decision importance was performed by the committee using the Nightengale method previously referenced.

The standards for the Tactfulness criteria were established as a basic guide for the instructor to make his subjective evaluation of the examinee technique for handling adverse conditions. Complainants will be simulated which require the examinee to use tact in handling a delicate or stress situation.

The standards discussed here are described in more detail in Appendix B where they have been applied in sample situations.
## TABLE 7
EVALUATION CRITERIA AND SCORING TECHNIQUES FOR PERFORMANCE STANDARDS

<table>
<thead>
<tr>
<th>Evaluation Criteria</th>
<th>Scoring Techniques</th>
<th>Possible Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information</td>
<td>Let N = number of necessary data items for a given situation, P = 1 if the correct form was used, 0 otherwise, T = total items to be scored, V = point value for each item being scored, S = examinee's score</td>
<td>Possible Score</td>
</tr>
<tr>
<td></td>
<td>Now: T = N + P V = T/35 S = ( \sum V_i )</td>
<td>35</td>
</tr>
<tr>
<td>Form</td>
<td>Let established mean time = ( \mu ), standard deviation = ( \sigma ), and Examinee's time = x. If: x ≤ (( \mu + \sigma )) Score: 30 (( \mu + \sigma )) x ≤ (( \mu + 2\sigma )) 20 (( \mu + 2\sigma )) x ≤ (( \mu + 3\sigma )) 10 x &gt; (( \mu + 3\sigma )) 0</td>
<td>30</td>
</tr>
<tr>
<td>Decision Capability</td>
<td>Let ( E ) = Examinee's score, ( N ) = total number of necessary decisions, ( f(x_i) ) = relative value of each decision, such that ( \sum_{i=1}^{N} f(x_i) = 20 ), the total possible points</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>( x ) = individual decision Now: ( E = \sum_{i=1}^{N} f(x_i) x_i )</td>
<td>20</td>
</tr>
<tr>
<td>Tactfulness</td>
<td>Subjective Evaluation</td>
<td>Score</td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Poor</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Total Possible Score</td>
<td>100</td>
</tr>
</tbody>
</table>
CHAPTER 3

GAME FACILITIES

Physical Layout and Equipment Selection for the Training Area

The training area for the game is located in the police wing of the Municipal Justice Building in downtown Orlando. Two adjoining rooms are used one for the instructor and the other by the examinee. The physical layout and the equipment used in the game are shown in Figure

The floor plan requirements for administering the training game were based on the functional requirements; privacy for the examinee, observation of the examinee by the instructor, and adequate sound proofing. Privacy for the examinee is needed to prohibit distractions and to provide him with an environment similar to the real situation. A provision for observing the examinee is necessary in order to time the information gathering phase of the situations submitted to the examinee for solution and to observe the examinee as he functions. Sound-proofing is required to keep the examinee from hearing the examiner and his assistants as they control and administer the situations, and to eliminate noises from surrounding offices.

According to a Naval Training and Device Center technical report one of the basic concerns in designing training systems is the extent to which the training situation must simulate the operational task. High fidelity training, when the cost is not prohibitive, will achieve a high level of effectiveness in the learning, retention, and transfer
abilities of the student. (7) The level of fidelity is the degree of realism in relation to the real-life operational task. A training system cannot provide perfect fidelity unless the operational system is itself the vehicle for training. In training by simulation, the ability of the student to transfer what he has learned to the operational task is dependent upon the fidelity of the simulation. According to Osgood's (1949) model (8), transfer of learning is directly dependent on the degree of fidelity.

The equipment needed for performing all aspects of the game was selected on the basis of its simulation fidelity and the ease with which it could be installed and revised. This latter requirement was necessary to permit the rooms to be used as a conference and interview room by the Youth Section of the C.I.B. Also, the equipment must be capable of ease of storage and/or use in other facilities if necessary.

The selected equipment for the control and observation room as shown in Figure 5 consists of three single line telephones, power supply for the room-to-room phone system, and a clipboard with stop watch. Three phones are needed to subject the examinee to three calls simultaneously, which is the average maximum number he will face at any single moment as a Complaint Officer.

The examination room equipment consists of a large detailed street map (4' x 6'), telephone with three lines to the control room, map book, shift duty roster (for the simulated shift being administered), a supply of OPD forms #602-09 and #602-03, and scratch paper and pen or pencil. The large wall map is divided into police districts to duplicate the wall map used in the Command/Control Center. The map book is
Figure 5: Shown Above is the Physical Layout and the Equipment Used in the Command/Control Complaint Officer Training Game
provided to locate specific areas on the large map for a more detailed inspection. The remaining materials are those utilized by the Complaint Officer in his daily activities.
CHAPTER 4

RESULTS OF INITIAL APPLICATION OF THE TRAINING GAME

Initial plans for testing the training game involved subjecting all Complaint Desk personnel to the three situations presented in Appendix B. At the time the testing phase of the research began there were eleven personnel, covering three work shifts, assigned to the Complaint Desk, but only five were subjected to the game. The reasons for the small sample were: two were involved with devising the situations, one was in the hospital, and two were on the First Shift, 11:30 p.m. to 7:30 a.m., when the assistants to the instructor were unavailable. Even though all Complaint Desk personnel were not evaluated by the game, the results obtained from the five examinee's were of significant importance.

The first significant finding was that the ordering of the examinees with respect to their operational proficiencies determined by the game was identical to the ordering of the examinees by personal evaluation from the Supervisor of the Command/Control Center. The Supervisor did not have prior knowledge of the examinees game scores before being asked to render the subjective evaluation of each in the order of their proficiency. This preliminary result indicates that the game may provide a valid proficiency indicator after the remaining six personnel have been examined. Table 8 shows the scores from the initial application of the training against five Complaint Desk Officers.
Their individual situation evaluation sheets are included for reference in Appendix F.

The next important finding was that there is an evident lack of documented operating procedures for the Complaint Desk Officer's job covering the day-to-day tasks of the position. This conclusion is based on an analysis of the examinees errors and through discussions with the examinees in the post game analysis. One indicator of the procedural difficulty was that three out of five, or sixty percent of the sample, failed to enter their initials on the form #602-09 in Situation 1. Two of the three examinees indicated that they did not know they were supposed to initial the non-emergency, 602-09. Another indicator was that all five examinees, one-hundred percent of the sample, failed to detect that Situation 3 was an In-Progress robbery even though the complainant told each that the robbers had just left the store and were fleeing. The Command/Control Supervisor stated that there is no directive defining accurately an In-Progress crime even though the examinees stated in the post game analysis that this situation could be classified as one and just failed to recognize the fact. Still another indicator was that all five failed to question the complainant on any possible injuries resulting from the armed robbery.
<table>
<thead>
<tr>
<th>Examinee</th>
<th>Situation</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>95</td>
<td>97.5</td>
<td>90.8</td>
<td>94.4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>95</td>
<td>87.0</td>
<td>72.8</td>
<td>84.9</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>95</td>
<td>100</td>
<td>95.6</td>
<td>96.9</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>95</td>
<td>89.5</td>
<td>78.4</td>
<td>87.6</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>65</td>
<td>90</td>
<td>75.6</td>
<td>76.9</td>
<td></td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>89</strong></td>
<td><strong>94.6</strong></td>
<td><strong>82.6</strong></td>
<td><strong>88.1</strong></td>
<td><strong>Examinees</strong></td>
</tr>
</tbody>
</table>
5.1 Computer Augmented Applications

There are numerous training devices in use today that utilize computers. These include training in tasks related to the operation of aircraft, spacecraft, air traffic control and others where it is important to dynamically control all aspects of a complex operation in a real time simulation. Computer Assisted Training (CAT) techniques and computer equipment can be applied to the Complaint Desk Officer Training Model.

The computer augmented version is directed toward the use of the instructional techniques of the manual game model under computer control to further meet the increasing training demands imposed by the dynamic nature of law enforcement and the growing need for more qualified personnel in Command/Control. The goals of the computerized version are summarized in Table 9.

The computer will increase standardization of grading the examinee performance. Timing of the examinee Information extraction and Decision Response phases can be recorded more accurately through programming the computer's internal clock for this purpose. This would eliminate the stopwatch timing technique required in the manual version. There are measurement criteria which still must be made subjectively by the instructor. His evaluations will still be required when the final
performance ratings are determined. The instructor must also review the results with the examinee.

Although CAT systems today are used primarily in military training applications, technological advancements have reduced computer costs such that commercial applications are becoming more numerous. One such system is the Computer Assisted Training Project (9) of the Los Angeles Police Department. This system is being designed for the LAPD to train and evaluate recruits in their police academy. The system will provide individualized programmed learning, situation simulation, trainee examination and evaluation and trainee record management. Simulation training provides a method to train effectively, safely and at less cost when compared to on-the-job training.

Training effectiveness is increased because the computer can accomplish more, with greater accuracy, in a fraction of the time it would take a human. The computer would not, though, take away the importance of the instructor's role in administering game situations, instead it would increase his effectiveness by allowing him more personalized instruction time with the trainee. It is important to note that in all cases the computer acts as an assistant to the instructor and does not take over his responsibility.

CAT also offers increased flexibility. If changes in the basic training game model becomes necessary, the computer system software can be easily altered to accommodate the change. Flexibility is also enhanced by the ability of the computer to maintain on-line records of examinee past performances. Therefore the computer system can be both a training and information retrieval system.
The inherent reliability of computer systems over that of equivalent manual systems is markedly superior. It is true that in the recent past highly complex electronic equipment has significant failure rates, but through technological achievements, such as solid logic technology, failure rates have become insignificant when compared to production abilities.

In conclusion, the case for CAT applications has been appropriately stated in a Naval Training Device Center publication "...automated training techniques can be applied in any training situation that requires objective performance measurement, flexibility of criteria for evaluation, and the capability to apply new techniques to an existing system." (10)

TABLE 9

GOALS OF COMPUTER AUGMENTED VERSION OF COMPLAINT OFFICER TRAINING MODEL

- Make a good training model even more effective
- Provide flexibility to sense and to rapidly respond to changing requirements
- Maintain standardization of evaluation and examinee records
- Eliminate as many of the manual segments of the original model as possible to reduce instructor workload and yield higher training fidelity.

5.2 Computer Augmented Game Model Logic

The computer augmented game model is a system of three distinct entities: instructor, examinee, and the computer interacting on a real-time basis. Figure 6 shows the game logic flow occurring between these
Instructor
- Selects situation
- Keys in request to computer
- Receives incident & caller data
- Studies data
- Simulates complainant by calling examinee
- Keys into computer a request to start the timer
- Keys in subjective grade on examinee's tactfulness
- Receives performance results and history data
- Performs post-game analysis with examinee

Examinee
- Receives situation environment data
- Studies data
- Answers phone
- Keys into computer the information received from complainant plus "key word" descriptions of decisions made, i.e.
  "ADVISE FHP"
  "SEND AMB" (ambulance)
  "SEND 241" (unit 241)
  etc.
- When situation is completed he keys "STOP"
- Post-game analysis

Computer
- Retrieves situation scenario from on-line files
- Transmits environment portion to examinee and incident & caller description to instructor
- Starts clock
- Stops clock & records time
- Compares examinee's data and responses according to situation grading subsystem
- Evaluates quantitative grading portion of the game
- Initiates request for instructor's evaluation of examinee's tact
- Completes score calculation & performance rating
- Retrieves examinee's on-line history file
- Updates history file
- Transmits performance rating to instructor

On-Line Files
- Situation Scenarios
- Examinee's history file
- System software

Figure 6: The Figure Above Shows the Logic Flow of the Computer Augmented Game Model
three entities. Interaction between the instructor and the computer, and between the examinee and the computer will be through keyboard data terminals over communication lines to the computer. Interaction between the instructor and examinee will be via telephone.

The computerized game logic flow begins with the manual selection, by the instructor, of a situation from a prepared list of situations stored in the computer's on-line files. Once the instructor makes his selection, he then proceeds to key-in the appropriate instructions on his remote terminal. The instructors are immediately transmitted via communication lines to the computer. At this point the computer takes control and directs the execution of the game until the examinee's performance rating is calculated and transmitted to the instructor for the post-game analysis phase.

5.3 Conclusion

One must be careful not to conclude that the small sample size (five examinees out of a total group of eleven personnel in the section) will yield conclusive results. However, significant evidence has been provided by the game results to indicate that there is a need for an effective training program for Complaint Officer training. The training game which was designed herein could be the answer. Continued experimentation of all Complaint Desk personnel could validate the model's effectiveness.

To support this training model, well-documented and standardized Operating Procedures for Complaint Desk Officers are needed. The current method of verbal directives on handling various operational
situations is insufficient. The only documented procedure for Complaint Officers is OPD Memorandum #72-1 dated June 29, 1972 covering the handling of Emergency Complaints (10-33 Traffic). It was found in testing the five officers that each had his own interpretation of many of the verbally directed procedures.

Future research is needed on development of the computerized game model. This effort should only be pursued upon completion of the validation of the present model, and should await the inclusion of any refinements found to be necessary from this work.
APPENDIX A
APPENDIX B
APPENDIX B
SITUATION SERIES A
SCENARIOS

Series description:

This series consists of three hypothetical situations which all take place on a Friday evening beginning at 2244 hours during which the entire Orlando area is experiencing a thunderstorm with heavy rain and lightning.

Situation 1

Type: Personal call

Call Description: Criminal Investigation Bureau wants Sgt. McNamara, Signal 10.

Handling procedure for examinee:

1. Check the duty roster to determine unit number assigned to Sgt. McNamara, if he is on duty and proceed to next procedure. If he is not on duty, tell the CIB caller and then hang up.

2. Fill in form 602-09 with unit number, the Sgt.'s name, a check mark in the block labeled OTHER, SIGNAL 10 written in the remarks section, and examinee's initials.

3. Time stamp the 602-09 on the back.

4. Send 602-09 to the Radio Operator.

Situation 2

Beginning time: 30 seconds after examinee answers the phone on Situation 1.

Type: Accident

Location: Curryford and Griffin Rd.

Reported by: Joe Jones, service station attendant, phone 424-2486.
Description of caller: Mr. Jones is in mild shock and speaking in an erratic manner, but fairly coherent. His descriptive vocabulary is that of approximately a sixth grader.

Incident description: A sedan was traveling west on Curryford Road at a high rate of speed, attempted to stop for the traffic signal, because of the rain-slick street the sedan slid through the intersection into a utility pole on the NW corner knocking it down. It then continued sliding, coming to rest against a gas pump at the service station, rupturing a gas line inside the pump. The driver is pinned inside the car, unconscious and bleeding. Gasoline is flowing openly from the pump and the utility lines are down in the street.

Handling procedure for examinee:

Caller states that a bad accident has occurred.

. Examinee requests location from caller.

. Examinee asks caller if there are injuries.

. After finding out there are injuries, examinee tells the caller to stay on the line.

. Put caller on hold.

. Call ambulance.

. Via the intercom:

Advise the Radio-Operator that an accident has occurred at Conway and Griffin, district 36, and an ambulance has been dispatched.

. Stamp form 602-03 twice, once for the approximate time received and once for the in-route time for the ambulance and police unit.

. Return to the caller who is holding.

. Advise caller that an ambulance and police care have been dispatched.

. Request additional information from caller.

NOTE: At this point the caller will volunteer the
remaining information about the accident as described in the section above on the incident description.

- Put caller on hold.
- Call the O.F.D. and advise them that a rescue unit is needed, giving the location, because a man is pinned in the car, and advise them that a gas leak was observed and utility lines are down.
- Via intercom advise Radio-Operator that the O.F.D. has dispatched fire and rescue units to the scene and advise Radio-Operator to dispatch additional police units for traffic and crowd control and to prohibit any smoking in the area.
  NOTE: Since this is taking place at the time of shift change, the examiner (acting as Radio-Operator) may advise the examinee that there are insufficient units available placing an additional burden on the examinee to request assistance from the OCSO or FHP or both.
- Advise Orlando Utilities of the downed lines and the gas leak in addition to emphasizing the seriousness of the accident.
- Return to the caller who is holding
  - Request identification of caller and his phone number.
  - Complete the information needed on the 602-03
  - Send 602-03 to the Radio-Operator.

**Situation 3**

**Beginning Time:** 1 minute, 30 seconds after examinee answers phone on Situation 2.

**Type:** Robbery (in progress)

**Location:** 7-11 convenience store at Princeton and Dade. District 22.

**Reported by:** John Smith, manager of the store, phone 849-2444.

**Description of caller:** Mr. Smith speaks in a fast excited manner.

**Incident description:** One white man and one black man, both armed with revolvers, hold Mr. Smith at gun point while removing approximately $200 in currency only, from the cash
register. The black man was about 6 feet tall, 185 pounds, wearing black trousers and a light blue shirt. The white man was short, about 5 feet 6 inches, 130 pounds, with shoulder length brown hair, wearing dirty and ragged blue jeans and a gray T-shirt. After leaving the store, the suspects entered a late model yellow sports car and headed west on Princeton. The only information about the car's tag was that Mr. Smith could see it was a Florida tag beginning with a 7.

Handling procedure for examinee:

Caller states that he has been robbed by two armed men.

. Asks caller for location.

. Asks caller is there any injuries

. Turns on the emergency light to notify the Radio-Operator to pick up the receiver and listen to the caller.

. Examinee repeats (to caller for his verification and also for the benefit of the Radio-Operator) location, incident type, and district number.

. Time stamp the 602-03.

. Gets verification from the Radio-Operator that she has received the information.

. Advises caller that the dispatcher is listening and to slowly give a description of the subjects and any other information requested.

. Upon completion of verification from the Radio-Operator, request identification of caller and his phone number.

. Complete the necessary entries on the 602-03

. Send 602-03 to Radio-Operator.
## PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

### Situation 1

#### A. Information Accuracy
- Used correct form, 602-09
- Necessary data entries (0 points if entry was omitted or entry was incorrect):
  - Unit number (435) 5
  - District number (88) 5
  - Officer's initials 5
  - Signal 10 in REMARKS 5
  - OTHER block checked 5
  - Time stamped on back of card 5

**Total: 35**

#### B. Form Completion Time

**Grading Scale:** \( \mu = 13.3 \text{ sec}, \quad \sigma = 1.9 \text{ sec} \)

<table>
<thead>
<tr>
<th>Score</th>
<th>If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Examinee's time ( \leq 15.2 ) sec</td>
</tr>
<tr>
<td>20</td>
<td>15.3 sec ( \leq ) Examinee's time ( \leq 17.1 ) sec</td>
</tr>
<tr>
<td>10</td>
<td>17.2 sec ( \leq ) Examinee's time ( \leq 19.0 ) sec</td>
</tr>
<tr>
<td>0</td>
<td>Examinee's time ( \geq 19.1 ) sec</td>
</tr>
</tbody>
</table>

**Total:** 30

#### C. Decision Capability

**Necessary decisions:** (None for this situation)

**Total:** 20

#### D. Tactfulness

**Scale:**

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>15</td>
</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 15

Total possible = 100
Examinee Total =
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 2

A. Information Accuracy

Used correct form, 602-03

Necessary data entries (0 points if entry was omitted or incorrect)

ACCIDENT AUTO block checked

Either AMBULANCE RUN block checked or

37 in space named OTHER

EMERGENCY block checked

Location of Event properly filled in

District number

Officer's initials

Complainant's name

Complainant's phone number

Complainant's address

TELEPHONE block checked

Time received stamped

Time of unit dispatch stamped

Any additional information which may be pertinent

Total

Possible Score

2.5

B. Form Completion Time

Grading Scale: \( \mu = .51 \text{ min.}, \sigma = .10 \text{ min} \)

<table>
<thead>
<tr>
<th>Examinee's time</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \leq .61 \text{ min} )</td>
<td>30</td>
</tr>
<tr>
<td>(.62 \leq \text{ Examinee's time} \leq .71 \text{ min} )</td>
<td>20</td>
</tr>
<tr>
<td>(.72 \leq \text{ Examinee's time} \leq .81 \text{ min} )</td>
<td>10</td>
</tr>
<tr>
<td>( \geq .82 \text{ min.} )</td>
<td>0</td>
</tr>
</tbody>
</table>

Total

C. Decision Capability

Necessary decisions:

Dispatch police unit immediately

Call ambulance

Notify OFD

Notify Orlando Utilities

Total

D. Tactfulness

Scale:

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>15</td>
</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
</tr>
</tbody>
</table>

Total

Total Possible

100

Exam.T1=
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 3

A. Information Accuracy

Used correct form, 602-03

Necessary data entries:
- EMERGENCY block checked
- IN PROGRESS block checked
- ROBBERY block checked
- Location of event
- District number
- Officer's initials
- Complainant's name
- Complainant's phone number
- Complainant's address
- TELEPHONE block checked
- 29-0 in OTHER space
- Time received stamped
- Time of dispatch stamped
- Any additional data

Possible Examinee Score


B. Form Completion Time

Grading Scale: \( \mu = .33 \text{ min.}, \quad \sigma = .06 \text{ min.} \)

If:

<table>
<thead>
<tr>
<th>Score</th>
<th>Examinee's time</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>( \leq .39 \text{ min} )</td>
</tr>
<tr>
<td>20</td>
<td>(.40 \text{ min} \leq \text{Examinee's time} \leq .45 \text{ min} )</td>
</tr>
<tr>
<td>10</td>
<td>(.46 \text{ min} \leq \text{Examinee's time} \leq .51 \text{ min} )</td>
</tr>
<tr>
<td>0</td>
<td>( \geq .52 \text{ min} )</td>
</tr>
</tbody>
</table>

Total 30

C. Decision Capability

Necessary decisions:
- Determine it's an Emergency
- To notify Radio operator by turning on Emergency Light
- To question complaint on possible injuries

Total 20

D. Tactfulness

Scale:

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>15</td>
</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
</tr>
</tbody>
</table>

Total 15

Total Possible 100 Exam.T1=
### SITUATION 1

#### Front View

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>OFFICER NO.</th>
<th>DIST.</th>
<th>DISPATCHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>435</td>
<td>McNamara</td>
<td>88 FW</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR</th>
<th>STATE</th>
<th>TAG NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-6</td>
<td></td>
<td>10-6</td>
</tr>
</tbody>
</table>

#### R E M A R K S

Sig 10

#### BACK VIEW

**JUL 25 10:09**
### SITUATION 2

#### Front View

<table>
<thead>
<tr>
<th>Location of Event</th>
<th>N/W Corner Conway and Griffin Rd.</th>
<th>Date of Event</th>
<th>Jul 25 10:33</th>
<th>Time of Event</th>
<th>Jul 25 10:33</th>
<th>Received By</th>
<th>F. Wilcoxon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported By</td>
<td>Joe Jones</td>
<td>Phone No.</td>
<td>424-2486</td>
<td>Address</td>
<td>Station Attendant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Back View

Any additional pertinent information
### SITUATION 3

#### Front View

<table>
<thead>
<tr>
<th>Event</th>
<th>Case Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prowler</td>
<td>86143A</td>
</tr>
</tbody>
</table>

**Date of Event:** JUL 25 10:46

**Time of Event:** JUL 25 10:46

**Location of Event:** 7-11 at Princeton and Dade

**Time Received:** 10-8

**Reported by:** John Smith

**Address:** Manager

**Telephone Number:** 849-2444

**Date of Event:** JUL 25

**Time of Event:** 10:46

**Received By:** FW

**Description:**
- **Officer:** B/M 20's, 6', 180 lbs, Lt blue shirt, Blk pants, 1 w/m 20's, 5'6", 130 lbs, shoulder length brown (over)

**Additional Information:**
- **Hair:** gray T-shirt, dirty and ragged
- **Jeans:** Heading west on Princeton is late model yellow sport car, 7-unk. Sig. 0 with revolvers.

#### Back View

- Hair, gray T-shirt, dirty and ragged
- Blue jeans. Heading west on Princeton is late model yellow sport car, 7-unk. Sig. 0 with revolvers.
APPENDIX C
APPENDIX C

The courses listed below are considered necessary requisites in curriculum for civilian Complaint Desk personnel by the Orlando Police Department.

**Introduction to Law Enforcement**
Objectives:
- Philosophical difference between natural law and human law.
- Brief history of law enforcement from ancient to modern times, with an emphasis on law enforcement development in the U.S.
- A presentation of the legal limitations on a democratic society, and reflection upon some major enforcement problems.
- Listing of the major and related agencies of law enforcement.
- Delineation of the basic processes of justice.
- Evaluating the current position of law enforcement.

**Ethics and Professionalization**
Objectives:
- To introduce the true meaning of Ethical Conduct as it applies to law enforcement.
- To point out the enforcement that accompanies the Law Enforcement Code of Ethics.
- To cover in detail the Law Enforcement Code of Ethics.

**How to Find the Law**
Objectives:
- To explain the various legal reference text and publications to enable the police personnel to locate laws and cases.

**Human Relations**
Objectives:
- To define and explain the role of human relations.
- To relate human relations with the police profession.
- To explain the attitudes and emotions that effect human relations.
- To explain the moral aspects of law enforcement.
- To introduce the student to the various changes taking place in society.

**Public Relations**
Objectives:
- To define and explain police public relations.
- To emphasize the importance of favorable public relations and the importance of maintaining a favorable image.
- To illustrate the results of both good and poor public relations.
Police and Minority Groups
Objectives:
. To isolate and identify specific groups, explaining their social background and customs.
. To explain and justify the positions of minorities.
. Minorities opinions toward police.
. To illustrate steps police must take to gain confidence of minorities.

Social Agencies Services
Objectives:
. To orient police personnel with the various state and local social agencies and their various services.
. To relate these services to the role of the officer.

Domestic Complaints
Objectives:
. To orient police personnel to the need in answering domestic complaints; reference State Statutes 85.19 and 509.141
. To equip the officer with the proper procedure and/or recommendations to handle domestic complaints.

Prowler and Disturbance Calls
Objectives:
. To orient police personnel to the need and proper method of answering prowler calls.
. To introduce the various operational techniques to follow when answering the call.
. To explain the various search procedures involved with these type calls.

Constitutional Law
Objectives:
. To familiarize police personnel with the purposes of the state's Constitutional Law.
. To briefly examine those cases whose results concern police personnel.
. To establish a foundation for the study of Criminal Law.

Criminal Law
Objectives:
. To familiarize police personnel with the origins, sources, development, and purposes of the Criminal Law.
. To cover Florida law relating to criminal acts with emphasis on elements of crimes, parties to crimes, and the specific statutory sections most used by police.
. To examine constitutional limitations and special problems encountered as a result of significant court decisions and case law.
To discuss some legal theory, as well as the practical applications of such theory to enable the student to better appreciate the laws he is sworn to enforce.

**Command/Control Operations**

**Objectives:**
- To familiarize personnel with the role of Command/Control within the Orlando Police Department.
- To cover all job tasks within the Command/Control center.
- To cover all procedures related to each task.
APPENDIX D
APPENDIX D

Application of Churchman's Procedure 1 for Weighting Objectives to the Quantification of Evaluation Criteria

1. The Supervisor of the Command/Control Center was asked to rank the four evaluation criteria in order of importance. The Supervisor's ranking was:

   0 = Information Accuracy
   1
   0 = Form Completion Time
   0 = Decision Capability
   0 = Tactfulness

2. The tentative value of 1.00 was assigned to the most valued outcome 0. The Supervisor was asked to assign values that initially seemed to reflect their relative values to the others. These tentative values v are considered as first estimates of the true value . The value assignments made was:

   0 = 1.00
   0 = .90
   0 = .80
   0 = .80

3. Now the evaluator was questioned on the following comparisons:

   If you had a choice of using either criteria 0 or the combination of 0, 0, and 0 which would you select? i.e. 0 vs 0, 0, 0. Evaluator's response was "neither is preferred over the other." Therefore no value adjustments are necessary in the v.

4. The evaluator was next asked to compare in the same manner 0 vs 0 and 0. Evaluator's response was "neither is preferred over the other." Again, no adjustments in the v were necessary.

5. The evaluator was finally asked to compare 0 vs 0. Evaluator's response was "0 is preferred over 0." Now v must be adjusted to conform to the assumption v = v. Therefore v is assigned the value .85.

6. The evaluations are now completed. The final values of v were normalized to obtain the weighting coefficients as follows:
\[
\begin{align*}
\text{Normalized} & \\
\frac{v_1}{1.00} & = \frac{3.55}{1.00} = 0.282 \\
\frac{v_2}{0.90} & = \frac{3.55}{0.90} = 0.394 \\
\frac{v_3}{0.85} & = \frac{3.55}{0.85} = 0.417 \\
\frac{v_4}{0.80} & = \frac{3.55}{0.80} = 0.444 \\
\sum & = 1.000
\end{align*}
\]

Thus, the final rankings were found to be

<table>
<thead>
<tr>
<th>Item</th>
<th>Relative Importance (weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0_1</td>
<td>0.28</td>
</tr>
<tr>
<td>0_2</td>
<td>0.25</td>
</tr>
<tr>
<td>0_3</td>
<td>0.24</td>
</tr>
<tr>
<td>0_4</td>
<td>0.23</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
</tr>
</tbody>
</table>
APPENDIX E

Application of Nightengale's Method of Making Decisions under Uncertainty to the Quantification of Evaluation Criteria

The OPD has three people who are very proficient, or expert, in the field of Complaint Desk operations. These people were asked to subjectively rank the four effectiveness criteria in the order of their importance to performance evaluation. The results are shown in the table below.

A = Form Completion Time  
B = Information Accuracy  
C = Tactfulness  
D = Decision Capability

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Expert</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Matrix A**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Row Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>X</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>X</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>0</td>
<td>X</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>X</td>
</tr>
</tbody>
</table>

The cell entries in Matrix A represent the number of times criteria i was judged more important than criteria j.
The cell entries in Matrix P represent the percentage of times criteria i was judged more important than criteria j.

**MATRIX P**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Row Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>X</td>
<td>0</td>
<td>.67</td>
<td>1.00</td>
<td>1.67</td>
</tr>
<tr>
<td>B</td>
<td>1.00</td>
<td>X</td>
<td>1.00</td>
<td>1.00</td>
<td>3.00</td>
</tr>
<tr>
<td>C</td>
<td>.333</td>
<td>0</td>
<td>X</td>
<td>.333</td>
<td>.67</td>
</tr>
<tr>
<td>D</td>
<td>0</td>
<td>0</td>
<td>.67</td>
<td>X</td>
<td>.67</td>
</tr>
</tbody>
</table>

**MATRIX Z**

Sample Calculation: \( G(Z) = .333, Z = -.43 \) from Normal Table

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Total</th>
<th>Mean((\bar{Z}))</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>4.3</td>
<td>0</td>
<td>4.3</td>
<td>4.3</td>
<td>12.90</td>
<td>3.20</td>
</tr>
<tr>
<td>A</td>
<td>0</td>
<td>0</td>
<td>.44</td>
<td>4.3</td>
<td>4.74</td>
<td>1.18</td>
</tr>
<tr>
<td>C</td>
<td>-.43</td>
<td>0</td>
<td>0</td>
<td>-.43</td>
<td>-.86</td>
<td>-.22</td>
</tr>
<tr>
<td>D</td>
<td>0</td>
<td>0</td>
<td>.44</td>
<td>0</td>
<td>.44</td>
<td>.11</td>
</tr>
</tbody>
</table>

Matrix Z is used to convert Matrix P into standard measurements of separation in terms of the equal standard deviations of the discriminant dispersion scale. A normal distribution table is used to accomplish this task. In this matrix the rows are arranged in descending order of percentages.

**ASSIGNMENT OF PROBABILITIES (WEIGHTS)**

<table>
<thead>
<tr>
<th>Z</th>
<th>G(Z)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\bar{Z}_B)</td>
<td>3.20</td>
</tr>
<tr>
<td>(\bar{Z}_A)</td>
<td>1.18</td>
</tr>
<tr>
<td>(\bar{Z}_C)</td>
<td>-.22</td>
</tr>
<tr>
<td>(\bar{Z}_D)</td>
<td>.11</td>
</tr>
</tbody>
</table>

\[ \frac{2.8373}{\text{Total}} \]
The order of importance and relative weights have been determined as follows:

Criteria B  .35
Criteria A  .30
Criteria D  .20
Criteria C  .15
APPENDIX F
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 1

A. Information Accuracy

- Used correct form, 602-09
- Necessary data entries (0 points if entry was omitted or entry was incorrect):
  - Unit number (435)
  - District number (88)
  - Officer's initials
  - Signal 10 in REMARKS
  - OTHER block checked
  - Time stamped on back of card

Possible Examinee Score

<table>
<thead>
<tr>
<th>Score</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>35</td>
</tr>
</tbody>
</table>

B. Form Completion Time

Grading Scale:

\[ \mu = 13.3 \text{ sec}, \quad \sigma = 1.9 \text{ sec} \]

If:

- Examinee's time \( \leq 15.2 \text{ sec} \)
  - Score: 30
- 15.3 sec \( \leq \) Examinee's time \( \leq 17.1 \text{ sec} \)
  - Score: 20
- 17.2 sec \( \leq \) Examinee's time \( \leq 19.0 \text{ sec} \)
  - Score: 10
- Examinee's time \( \geq 19.1 \text{ sec} \)
  - Score: 0

Total: 30

C. Decision Capability

Necessary decisions:

(None for this situation)

Total: 20

D. Tactfulness

Scale:

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>15</td>
</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
</tr>
</tbody>
</table>

Total: 15

Total possible = 100

Examinee Total = 95
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 2

A. Information Accuracy
   Used correct form, 602-03
   Necessary data entries (0 points if entry was omitted or incorrect)
      ACCIDENT AUTO block checked 2.5
      Either AMBULANCE RUN block checked or
      37 in space named OTHER 2.5
      EMERGENCY block checked 2.5
      Location of Event properly filled in 2.5
      District number 2.5
      Officer's initials 2.5
      Complainant's name 2.5
      Complainant's phone number 2.5
      Complainant's address 2.5
      TELEPHONE block checked 2.5
      Time received stamped 2.5
      Time of unit dispatch stamped 2.5
      Any additional information which may be pertinent 2.5

   Total 35

B. Form Completion Time
   Grading Scale: $\mu = .51$ min., $\sigma = .10$ min
   If: Examinee's time $\leq .61$ min 30
      $$.62 \leq \text{Examinee's time} \leq .71$ min 20
      $$.72 \leq \text{Examinee's time} \leq .81$ min 10
      Examinee's time $\geq .82$ min. 0
   Total 30

C. Decision Capability
   Necessary decisions:
      Dispatch police unit immediately 3
      Call ambulance 5
      Notify OFD 9
      Notify Orlando Utilities 3
   Total 20

D. Tactfulness
   Scale:
   Subjective Rating Score
      Excellent 15
      Good 10
      Fair 5
      Poor 0
   Total 15

   Total Possible 100 Exam.T1=97.5
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 3

A. Information Accuracy
   Used correct form, 602-03
   Necessary data entries:
   - EMERGENCY block checked
   - IN PROGRESS block checked
   - ROBBERY block checked
   - Location of event
   - District number
   - Officer's initials
   - Complainant's name
   - Complainant's phone number
   - Complainant's address
   - TELEPHONE block checked
   - 29-0 in OTHER space
   - Time received stamped
   - Time of dispatch stamped
   - Any additional data

   Total possible points: 35
   Score: 29.8

B. Form Completion Time
   Grading Scale: \( \mu = 0.33 \text{ min.}, \) \( \sigma = 0.06 \text{ min.} \)
   If:
   \[
   \begin{align*}
   \text{Examinee's time} & \leq 0.39 \text{ min} & 30 \\
   0.40 \text{ min} & \leq \text{Examinee's time} & \leq 0.45 \text{ min} & 20 \\
   0.46 \text{ min} & \leq \text{Examinee's time} & \leq 0.51 \text{ min} & 10 \\
   \text{Examinee's time} & \geq 0.52 \text{ min} & 0 \\
   \hline
   \text{Total} & & 30 & 30
   \end{align*}
   \]

C. Decision Capability
   Necessary decisions:
   - Determine it's an Emergency
   - To notify Radio operator by turning on Emergency Light
   - To question complaint on possible injuries

   Total possible points: 20
   Score: 18

D. Tactfulness
   Scale:
   \[
   \begin{align*}
   \text{Subjective Rating} & \quad \text{Score} \\
   \text{Excellent} & \quad 15 \\
   \text{Good} & \quad 10 \\
   \text{Fair} & \quad 5 \\
   \text{Poor} & \quad 0 \\
   \hline
   \text{Total} & \quad 15 \\
   \end{align*}
   \]
   Total possible points: 100
   Score: 90.8

Examinee's time: 39.0 min
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 1

A. Information Accuracy
   • Used correct form, 602-09
   • Necessary data entries (0 points if entry was omitted or entry was incorrect):
     Unit number (435)
     District number (88)
     Officer's initials
     Signal 10 in REMARKS
     OTHER block checked
     Time stamped on back of card

   Possible Examinee Score
   Score

B. Form Completion Time
   Grading Scale: \( \mu = 13.3 \text{ sec}, \quad \sigma = 1.9 \text{ sec} \)

<table>
<thead>
<tr>
<th>If:</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examinee's time ( \leq 15.2 \text{ sec} )</td>
<td>30</td>
</tr>
<tr>
<td>( 15.3 \text{ sec} \leq \text{Examinee's time} \leq 17.1 \text{ sec} )</td>
<td>20</td>
</tr>
<tr>
<td>( 17.2 \text{ sec} \leq \text{Examinee's time} \leq 19.0 \text{ sec} )</td>
<td>10</td>
</tr>
<tr>
<td>Examinee's time ( \geq 19.1 \text{ sec} )</td>
<td>0</td>
</tr>
</tbody>
</table>

   Total: 30
   Score: 30

C. Decision Capability
   Necessary decisions:
   (None for this situation)

   Total: 20
   Score: 20

D. Tactfulness
   Scale:

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>15</td>
</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
</tr>
</tbody>
</table>

   Total: 15
   Score: 15

Total possible = 100
Examinee Total = 95
### PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

**Situation 2**

<table>
<thead>
<tr>
<th>Possible Examinee Score</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Information Accuracy</strong></td>
<td></td>
</tr>
</tbody>
</table>

- **Used correct form, 602-03**
- **Necessary data entries (0 points if entry was omitted or incorrect)**
  - ACCIDENT AUTO block checked: 2.5 ✓
  - Either AMBULANCE RUN block checked or 37 in space named OTHER: 2.5 ✓
  - EMERGENCY block checked: 2.5 ✓
  - Location of Event properly filled in: 2.5 ✓
  - District number: 2.5 ✓
  - Officer's initials: 2.5 ✓
  - Complainant's name: 2.5 ✓
  - Complainant's phone number: 2.5 ✓
  - Complainant's address: 2.5 ✓
  - TELEPHONE block checked: 2.5 ✓
  - Time received stamped: 2.5 ✓
  - Time of unit dispatch stamped: 2.5 ✓
  - Any additional information which may be pertinent: 2.5 ✓

**Total** 35 25

| **B. Form Completion Time** |       |

- **Grading Scale:**
  - \( \mu = 0.51 \text{ min.}, \quad \sigma = 0.10 \text{ min} \)
  - **Examinee's time ≤ 0.61 min** 30 ✓
  - \( 0.62 \leq \text{Examinee's time} \leq 0.71 \text{ min} \) 20
  - \( 0.72 \leq \text{Examinee's time} \leq 0.81 \text{ min} \) 10
  - **Examinee's time ≥ 0.82 min.** 0

**Total** 30 30

| **C. Decision Capability** |       |

- **Necessary decisions:**
  - Dispatch police unit immediately: 3 ✓
  - Call ambulance: 5 ✓
  - Notify OFD: 9 ✓
  - Notify Orlando Utilities: 3 ✓

**Total** 20 17

| **D. Tactfulness** |       |

- **Scale:**
  - **Subjective Rating**
    - Excellent: 15 ✓
    - Good: 10
    - Fair: 5
    - Poor: 0

**Total** 15 15

**Total Possible** 100 Exam. T1 = 87
## PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

### Situation 3

<table>
<thead>
<tr>
<th>A. Information Accuracy</th>
<th>Possible Examinee Score</th>
<th>Score</th>
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<tr>
<td>Used correct form, 602-03</td>
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<tr>
<td>Necessary data entries:</td>
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<tr>
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<tr>
<td>IN PROGRESS block checked</td>
<td>2.4 ✓</td>
<td></td>
</tr>
<tr>
<td>ROBBERY block checked</td>
<td>2.4 ✓</td>
<td></td>
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<tr>
<td>Location of event</td>
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<tr>
<td>District number</td>
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<td></td>
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<tr>
<td>Officer's initials</td>
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<tr>
<td>Complainant's name</td>
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<tr>
<td>Complainant's phone number</td>
<td>2.4 ✓</td>
<td></td>
</tr>
<tr>
<td>Complainant's address</td>
<td>2.4 ✓</td>
<td></td>
</tr>
<tr>
<td>TELEPHONE block checked</td>
<td>2.4 ✓</td>
<td></td>
</tr>
<tr>
<td>29-0 in OTHER space</td>
<td>2.4 ✓</td>
<td></td>
</tr>
<tr>
<td>Time received stamped</td>
<td>2.4 ✓</td>
<td></td>
</tr>
<tr>
<td>Time of dispatch stamped</td>
<td>2.4 ✓</td>
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### B. Form Completion Time

Grading Scale: $\mu = .33$ min., $\sigma = .06$ min.

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<td>$.40$ min $\leq$ Examinee's time $\leq .45$ min</td>
<td>20</td>
</tr>
<tr>
<td>$.46$ min $\leq$ Examinee's time $\leq .51$ min</td>
<td>10</td>
</tr>
<tr>
<td>Examinee's time $\geq .52$ min</td>
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</tr>
<tr>
<td>Total</td>
<td>30</td>
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</table>

### C. Decision Capability

Necessary decisions:
- Determine it's an Emergency: 8 X
- To notify Radio operator by turning on Emergency Light: 10 X
- To question complaint on possible injuries: 2 X
| Total | 20 | 0 |

### D. Tactfulness

Scale:

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
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<tbody>
<tr>
<td>Excellent</td>
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</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
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<tr>
<td>Poor</td>
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<td>Total</td>
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Total Possible: 100
Exam.T1=72.8
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 1

EXAMINEE #3

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<td></td>
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<td>Unit number (435)</td>
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<td></td>
</tr>
<tr>
<td>District number (88)</td>
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<tr>
<td>Officer's initials</td>
<td>5 x</td>
<td></td>
</tr>
<tr>
<td>Signal 10 in REMARKS</td>
<td>5 ✓</td>
<td></td>
</tr>
<tr>
<td>OTHER block checked</td>
<td>5 ✓</td>
<td></td>
</tr>
<tr>
<td>Time stamped on back of card</td>
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<tr>
<td>If:</td>
<td>Score</td>
<td>Score</td>
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<tr>
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<td>15.3 sec $\leq$ Examinee's time $\leq$ 17.1 sec</td>
<td>20 ✓</td>
<td></td>
</tr>
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<td>17.2 sec $\leq$ Examinee's time $\leq$ 19.0 sec</td>
<td>10 ✓</td>
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<tr>
<td>Examinee's time $\geq$ 19.1 sec</td>
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<table>
<thead>
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<th>C. Decision Capability</th>
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<th>Score</th>
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<tr>
<td>Scale: Subjective Rating</td>
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<td>Score</td>
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<tr>
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## PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

### Situation 2

#### A. Information Accuracy
- **Used correct form, 602-03**
- **Necessary data entries (0 points if entry was omitted or incorrect)**
  - ACCIDENT AUTO block checked
  - Either AMBULANCE RUN block checked or 37 in space named OTHER
  - EMERGENCY blocked checked
  - Location of Event properly filled in
  - District number
  - Officer's initials
  - Complainant's name
  - Complainant's phone number
  - Complainant's address
  - TELEPHONE block checked
  - Time received stamped
  - Time of unit dispatch stamped
  - Any additional information which may be pertinent

<table>
<thead>
<tr>
<th>Possible Examinee Score</th>
<th>Score</th>
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</thead>
<tbody>
<tr>
<td></td>
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#### B. Form Completion Time

**Grading Scale:** $\mu = .51$ min., $\sigma = .10$ min

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<thead>
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<th>If:</th>
<th>Score</th>
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<tbody>
<tr>
<td>Examinee's time $\leq .61$ min</td>
<td>30 ✓</td>
</tr>
<tr>
<td>$.62 \leq$ Examinee's time $\leq .71$ min</td>
<td>20 ✓</td>
</tr>
<tr>
<td>$.72 \leq$ Examinee's time $\leq .81$ min</td>
<td>10 ✓</td>
</tr>
<tr>
<td>Examinee's time $\geq .82$ min</td>
<td>0 ✓</td>
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</tbody>
</table>

Total Score: **30**

#### C. Decision Capability

**Necessary decisions:**
- Dispatch police unit immediately
- Call ambulance
- Notify OFD
- Notify Orlando Utilities

Total Score: **20**

#### D. Tactfulness

**Scale:**
- **Subjective Rating**
  - Excellent
  - Good
  - Fair
  - Poor

<table>
<thead>
<tr>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 ✓</td>
</tr>
<tr>
<td>10 ✓</td>
</tr>
<tr>
<td>5 ✓</td>
</tr>
<tr>
<td>0 ✓</td>
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Total Score: **15**

Total Possible: 100

Exam. T1 = 100
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 3

A. Information Accuracy
   Used correct form, 602-03
   Necessary data entries:
   - EMERGENCY block checked
   - IN PROGRESS block checked
   - ROBBERY block checked
   - Location of event
   - District number
   - Officer's initials
   - Complainant's name
   - Complainant's phone number
   - Complainant's address
   - TELEPHONE block checked
   - 29-0 in OTHER space
   - Time received stamped
   - Time of dispatch stamped
   - Any additional data
   Total

B. Form Completion Time
   Grading Scale: \( \mu = 0.33 \text{ min.}, \quad \sigma = 0.06 \text{ min.} \)
   If: \[ \text{Examinee's time} \leq 0.39 \text{ min} \]
   \[ \quad \text{Score: } 30 \checkmark \]
   \[ 0.40 \text{ min} \leq \text{Examinee's time} \leq 0.45 \text{ min} \]
   \[ \quad \text{Score: } 20 \checkmark \quad 0.38 \text{ min.} \]
   \[ 0.46 \text{ min} \leq \text{Examinee's time} \leq 0.51 \text{ min} \]
   \[ \quad \text{Score: } 10 \checkmark \]
   \[ \text{Examinee's time} \geq 0.52 \text{ min} \]
   \[ \quad \text{Score: } 0 \checkmark \]
   Total

C. Decision Capability
   Necessary decisions:
   - Determine it's an Emergency
   - To notify Radio operator by turning on Emergency Light
   - To question complaint on possible injuries
   Total

D. Tactfulness
   Scale:
   Subjective Rating
   \[ \text{Excellent} \quad 15 \checkmark \]
   \[ \text{Good} \quad 10 \checkmark \]
   \[ \text{Fair} \quad 5 \checkmark \]
   \[ \text{Poor} \quad 0 \checkmark \]
   Total

Possible Examinee Score

\[
\begin{array}{c|c|c}
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\text{Situation 3} & \text{Possible Examinee Score} \\
\hline
\text{A. Information Accuracy} & 1.4 \checkmark \\
\text{B. Form Completion Time} & 35 \checkmark \quad 32.6 \\
\text{C. Decision Capability} & 8 \checkmark \\
\text{D. Tactfulness} & 15 \checkmark \\
\hline
\text{Total Possible} & 100 \quad \text{Exam. Tl=95.6} \\
\hline
\end{array}\\
\]
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 1

A. Information Accuracy
   - Used correct form, 602-09
   - Necessary data entries (0 points if entry was omitted or entry was incorrect):
     Unit number (435)
     District number (88)
     Officer's initials
     Signal 10 in REMARKS
     OTHER block checked
     Time stamped on back of card
   Possible Examinee Score
   Score

B. Form Completion Time
   Grading Scale: $\mu = 13.3$ sec, $\sigma = 1.9$ sec
   If: Score
   Examinee's time $\leq 15.2$ sec 30 $\checkmark$
   15.3 sec $\leq$ Examinee's time $\leq 17.1$ sec 20
   17.2 sec $\leq$ Examinee's time $\leq 19.0$ sec 10
   Examinee's time $\geq 19.1$ sec 0
   Total 30 30

C. Decision Capability
   Necessary decisions:
   (None for this situation)
   Total 20 20

D. Tactfulness
   Scale:
   Subjective Rating Score
   Excellent 15
   Good 10
   Fair 5
   Poor 0
   Total 15

Total possible = 100 Examinee Total = 95
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 2

A. Information Accuracy

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<th>Necessary data entries (0 points if entry was omitted or incorrect)</th>
<th>Possible Examinee Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCIDENT AUTO block checked</td>
<td>2.5</td>
</tr>
<tr>
<td>Either AMBULANCE RUN block checked or 37 in space named OTHER</td>
<td>2.5</td>
</tr>
<tr>
<td>EMERGENCY blocked checked</td>
<td>2.5</td>
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<tr>
<td>Location of Event properly filled in</td>
<td>2.5</td>
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<tr>
<td>District number</td>
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<td>Officer's initials</td>
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<tr>
<td>Complainant's name</td>
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<tr>
<td>Complainant's phone number</td>
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<tr>
<td>Complainant's address</td>
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<td>Time of unit dispatch stamped</td>
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<td>Any additional information which may be pertinent</td>
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Total: 35

B. Form Completion Time

Grading Scale: $\mu = .51 \text{ min.}, \sigma = .10 \text{ min}$

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<td>$.72 \leq \text{ Examinee's time} \leq .81 \text{ min}$</td>
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</tr>
<tr>
<td>$\geq .82 \text{ min.}$</td>
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Total: 30

C. Decision Capability

Necessary decisions:
- Dispatch police unit immediately: 3
- Call ambulance: 5
- Notify OPD: 9
- Notify Orlando Utilities: 3

Total: 17

D. Tactfulness

Scale:

<table>
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<th>Subjective Rating</th>
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<td>Good</td>
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<td>Fair</td>
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<td>Poor</td>
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Total: 15

Total Possible: 100

Exam. T1 = 89.5
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

**Situation 3**

A. Information Accuracy

- **Used correct form, 602-03**
- **Necessary data entries:**
  - EMERGENCY block checked
  - IN PROGRESS block checked
  - ROBBERY block checked
  - Location of event
  - District number
  - Officer's initials
  - Complainant's name
  - Complainant's phone number
  - Complainant's address
  - TELEPHONE block checked
  - 29-0 in OTHER space
  - Time received stamped
  - Time of dispatch stamped
  - Any additional data

**Possible Examinee Score**

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**B. Form Completion Time**

**Grading Scale:** \( \mu = 0.33 \text{ min.}, \quad \sigma = 0.06 \text{ min.} \)

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<tr>
<td>( .40 \text{ min} \leq \text{Examinee's time} \leq .45 \text{ min} )</td>
<td>20</td>
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<tr>
<td>( .46 \text{ min} \leq \text{Examinee's time} \leq .51 \text{ min} )</td>
<td>10</td>
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<tr>
<td>( \geq .51 \text{ min} )</td>
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**Total** 35

**C. Decision Capability**

- **Necessary decisions:**
  - Determine it's an Emergency
  - To notify Radio operator by turning on Emergency Light
  - To question complaint on possible injuries

**Total** 20

**D. Tactfulness**

**Scale:**

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
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<tbody>
<tr>
<td>Excellent</td>
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<td>Fair</td>
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**Total** 15

**Total Possible** 100

**Examinee T1 = 72.4**
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 1  

**EXAMINEE #5**

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</tr>
<tr>
<td>• Used correct form, 602-09</td>
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<td>• Necessary data entries (0 points if entry was omitted or entry was incorrect):</td>
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<tr>
<td>Unit number (435)</td>
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<tr>
<td>District number (88)</td>
<td>5 ✓</td>
<td></td>
</tr>
<tr>
<td>Officer's initials</td>
<td>5 ✓</td>
<td></td>
</tr>
<tr>
<td>Signal 10 in REMARKS</td>
<td>5 ✓</td>
<td></td>
</tr>
<tr>
<td>OTHER block checked</td>
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<td><strong>Total</strong></td>
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**B. Form Completion Time**

Grading Scale: \( \mu = 13.3 \text{ sec}, \sigma = 1.9 \text{ sec} \)

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<tr>
<td>( 17.2 \text{ sec} \leq \text{Examinee's time} \leq 19.0 \text{ sec} )</td>
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<tr>
<td><strong>Total</strong></td>
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**C. Decision Capability**

Necessary decisions: (None for this situation)

| Total | 20 | 20 |

**D. Tactfulness**

Scale:

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<th>Subjective Rating</th>
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<td>Fair</td>
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<td>Poor</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

Total possible = 100  
Examinee Total = 65
### PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

#### Situation 2

<table>
<thead>
<tr>
<th>A. Information Accuracy</th>
<th>Possible Examinee Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Used correct form, 602-03</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Necessary data entries (0 points if entry was omitted or incorrect)</td>
<td></td>
</tr>
<tr>
<td>ACCIDENT AUTO block checked</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Either AMBULANCE RUN block checked or EMERGENCY blocked checked</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Location of Event properly filled in</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>District number</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Officer's initials</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Complainant's name</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Complainant's phone number</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Complainant's address</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>TELEPHONE block checked</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Time received stamped</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Time of unit dispatch stamped</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td>Any additional information which may be pertinent</td>
<td>2.5 ✓</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

#### B. Form Completion Time

**Grading Scale:** $\mu = .51$ min., $\sigma = .10$ min

<table>
<thead>
<tr>
<th>If:</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examinee's time $\leq .61$ min</td>
<td>30</td>
</tr>
<tr>
<td>$.62 \leq$ Examinee's time $\leq .71$ min</td>
<td>20 ✓</td>
</tr>
<tr>
<td>$.72 \leq$ Examinee's time $\leq .81$ min</td>
<td>10</td>
</tr>
<tr>
<td>Examinee's time $\geq .82$ min.</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

#### C. Decision Capability

**Necessary decisions:**
- Dispatch police unit immediately 3 ✓
- Call ambulance 5 ✓
- Notify OFD 9 ✓
- Notify Orlando Utilities 3 ✓
| **Total** | **20** |

#### D. Tactfulness

**Scale:**

<table>
<thead>
<tr>
<th>Subjective Rating</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>15 ✓</td>
</tr>
<tr>
<td>Good</td>
<td>10</td>
</tr>
<tr>
<td>Fair</td>
<td>5</td>
</tr>
<tr>
<td>Poor</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**Total Possible** 100  Exam.Tl=90
PERFORMANCE STANDARDS AND EXAMINEE EVALUATION SHEET

Situation 3

A. Information Accuracy
   Used correct form, 602-03
   Necessary data entries:
   - EMERGENCY block checked
   - IN PROGRESS block checked
   - ROBBERY block checked
   - Location of event
   - District number
   - Officer's initials
   - Complainant's name
   - Complainant's phone number
   - Complainant's address
   - TELEPHONE block checked
   - 29-0 in OTHER space
   - Time received stamped
   - Time of dispatch stamped
   - Any additional data

   Possible Examinee Score: 1.4

B. Form Completion Time
   Grading Scale: $\mu = .33$ min., $\sigma = .06$ min.
   If:
   - Examinee's time $\leq .39$ min
   - $.40 \leq$ Examinee's time $\leq .45$ min
   - $.46 \leq$ Examinee's time $\leq .51$ min
   - Examinee's time $\geq .52$ min

   Score
   - 30
   - 20
   - 10
   - 0

   Total
   - 30
   - 10

C. Decision Capability
   Necessary decisions:
   - Determine it's an Emergency
   - To notify Radio operator by turning on Emergency Light
   - To question complaint on possible injuries

   Possible Examinee Score: 2

D. Tactfulness
   Scale:
   Subjective Rating | Score
   --- | ---
   Excellent | 15
   Good | 10
   Fair | 5
   Poor | 0

   Total
   - 15

   Total Possible: 100
   Exam.TI=756
SELECTED REFERENCES


2. Ibid.


