

Job Analysis Schedule

1. **ESTABLISH JOB TITLE:** Emergency Medical Technician - Basic
2. **CODE 079026 WTA GROUP:** Occupations in medicine and health
3. **JOB SUMMARY:** Administers life support care to injured and sick persons in prehospital settings as authorized and directed by physician. Assesses nature and extent of injury or illness to establish and prioritize medical procedures to be followed.
4. **WORK PERFORMED RATINGS:**

Worker Functions	Data	People	Things
	3	7	4

Work Field: 930

M.P.S.M.S: 939 Medical and other health services. (Materials, Products, Subject Matter, and Services)

5. **WORKER TRAITS RATINGS:**

Scale: Level 6, highest level; level 1, lowest level.

G.E.D. 1 2 3 4 5 6

General Education Development

Overall Rating - Level 4

Reasoning development (R)

Level 4 - Apply principles of rational systems to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Interpret a variety of instructions furnished in written, oral, diagrammatic, or schedule form.

- * **NOTE:** There appears to be components of level 5 in terms of dealing with several abstract and concrete variables. There were not enough components to rate this as a level 5.

Mathematical development (M)

Level 3 - Compute discount, interest, profit, and loss; commission, markup, and selling price; ratio and proportion and percentage. Calculate surfaces, volumes, weights, and measures.

Language development (L)

Level 4 - Reading: Reads novels, poems, newspapers, periodicals, journals, manuals, dictionaries, thesauruses, and encyclopedias.

Writing: Prepare business letters, expositions, summaries, and reports, using prescribed format and conforming to all rules of punctuation, grammar, diction, and style.

Speaking: Participate in panel discussions, dramatizations, and debates. Speak extemporaneously on a variety of subjects.

* **NOTE:** In the analyst's opinion, the General Educational Development level appears to be an area in which skill levels could be separated, particularly the math. Precise reading of medications, however, is essential, e.g., Tylenol vs. Tegretol.

SVP 1 2 3 4 5 6 7 8 9

Special Vocational Preparation (Time requirement)

Level 4 - Over three months and including six months

Aptitudes: G 3 V 3 N 3 S 3 P 2 Q 2/3 K 2 F 1/2 M 2 E 2 C 1

Scale: Level 1, highest degree of particular aptitude; level 5, lowest degree of particular aptitude.

G - Intelligence

Level G-3:1 Renders general nursing care to patients in hospital, infirmary, sanitarium, or similar institution:

Intelligence is required to learn and apply principles of anatomy, physiology, microbiology, nutrition, psychology, and patient care used in nursing; to make independent judgments in absence of doctor; and to determine methods and treatments to use when caring for patients with varying illnesses or injuries.

V - Verbal Aptitude

Level V-3:9 Questions patients to obtain their medical history, personal data, and to determine if they are allergic to dental drugs or have any complicating illnesses.

Converses with patient in reassuring manner; explains post-operative care, oral hygiene, and importance of preventive dentistry to patients.

N - Numerical Aptitude(The ability to perform arithmetic operations quickly and accurately)

Level 3 - No illustrations in EMS field.

Level N-3:2 Treats patients with disabilities, disorders, and injuries to relieve pain, develop or restore function, and maintain maximum performance, using physical means such as exercise, massage, heat, water, light, and electricity as prescribed by physician:

Numerical aptitude is required to interpret clinical tests such as range of motion, muscle response, and functional tests to ascertain extent of physical loss; to determine intensity and duration of manual or mechanical therapy treatment or procedures such as weight lifting, diathermy, traction, or electrotherapy.

S - Spatial Aptitude

Level S-3:1 Treats patients with disabilities, disorders, and injuries to relieve pain, develop or restore function, and maintain maximum performance, using physical means such as exercise, massage, heat, water, light, and electricity, as prescribed by doctor:

Spatial aptitude is required to visualize anatomic positions and the relationship between the point of forces and the area affected (as in traction); and to place

treatment devices or administer manual treatment in relationship to the affected body part.

P - Form Perception

Level P-2:6 Diagnoses and treats diseases and disorders of animals. Ability to make visual comparisons and discriminations and see slight differences in shapes and shadings of figures and widths and lengths of lines. Form perception is required to perceive pertinent details of size, shape, and form in skeletal structure, organs, tissue, and specimens of various animals.

Q - Clerical Perception

Level Q-2:19 (for Paramedic and Intermediate) - Renders general nursing care to patients in hospital, infirmary, sanitarium, or similar institution:

Notes pertinent detail in written instructions, especially amounts and strengths of medications to administer; accurately perceives numbers when reading instruments, preparing medications, and filling syringes for injections; accurately records data on patients' charts such as temperature, respiration, pulse count, blood pressure, medications and dosage administered.

Level Q-3:3 (for Basic) - Prepares and compiles records in hospital nursing unit, such as obstetrics, pediatrics, or surgery:

Clerical perception is required to post information to patients' charts from doctors' and nurses' notes and laboratory reports; to file charts in chart racks; to make up daily diet sheet for unit; and to maintain inventory of drugs and supplies.

K - Motor Coordination

K-2:5 Renders general nursing care to patients in hospital, infirmary, sanitarium, or similar institution:

Coordinates vision and finger and hand movements to give injections with hypodermic needle, medication, position or remove dressings, and to measure medicines.

F - Finger Dexterity

F-1:2 No description for EMT-Basic, however, Level 2 is recommended due to ability to wrap bandages and apply splints.

M - Manual Dexterity

Level M-2:12 Renders general nursing care to patients in hospital, infirmary, sanitarium, or similar situation. Controls and extinguishes fires, protects life and property, and maintains equipment as volunteer or employee of city, township, or industrial plant. Manual dexterity is required during emergency situations, in positioning ladders and nets; clasping rungs to climb ladders; and in giving artificial respiration.

E - Eye-Hand-Foot Coordination

No description given. Level 2 recommended as job may require balancing of ladders, stairs, or walking on uneven terrain while carrying patient. Eye-Hand-Foot coordination required to permit ambulance operation and balancing, lifting, positioning, and transporting patient.

C - Color Discrimination

C-1:4 Performs surgery to correct deformities, repair injuries, prevent diseases, and to improve functions in patients:

Uses color discrimination and color memory in making diagnosis of patient's affliction or condition, by recognizing any deviations in color of diseased tissue from healthy tissue; evaluating color characteristics such as hue and saturation of affected body parts; and making determination as to extent or origin of condition.

Temperaments D F I J M P R S T V

J - Adaptability to making generalizations, evaluations or decisions based on sensory or judgmental criteria.

M - Adaptability to making generalizations, judgments, or decisions based on measurable or verifiable criteria.

P - Adaptability to dealing with people beyond giving and receiving instructions.

S - Adaptability to performing under stress when confronted with emergency, critical, unusual, or dangerous situations; or in situations in which working speed and sustained attention are 'make or break' aspects of the job.

T - Adaptability to situations requiring the precise attainment of set limits, tolerances, or standards.

V - Adaptability to performing a variety of duties, often changing from one task to another of a different nature without loss of efficiency or composure.

Interests 1a 1b 2a 2b 3a 3b 4a 4b 5a 5b

2b -A preference for activities of a scientific and technical nature.

4a -A preference for working for the presumed good of the people.

Physical Demands S L M H V 2 3 4 5 6

Explanation of terms:

1. Strengths
2. Climbing and/or balancing
3. Stooping, kneeling, crouching and/or crawling
4. Reaching, handling, and fingering and/or feeling
5. Talking and hearing
6. Seeing

Environmental Conditions I O B 2 3 4 5 6 7

Explanation of terms:

1. Work location (I = Indoors, O = Outdoors, B = Both)
2. Extreme cold, with or without temperature changes
3. Extreme heat, with or without temperature changes
4. Wet and/or humid
5. Noise and/or vibration
6. Hazards
7. Atmospheric conditions

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Physical Demands and Environmental Conditions

ESTAB. JOB TITLE EMT-Paramedic **ESTAB. & SCHED. NO.**

DOT TITLE & CODE 079.010

Code: F = Frequently
O = Occasionally
NP = Not present

Physical Demands		Comments	
1. STRENGTH			
a.	Standing	45%	1a. Very little time is spent sitting down, except for incident report writing.
	Walking	50%	
	Sitting	5%	
b.	Lifting	F	1b. EMTs are required to assist in lifting and carrying injured or sick persons to ambulance, removal from ambulance, and into emergency care setting.
	Carrying	F	
	Pushing	O	
	Pulling	O	
2.	Climbing	F	2. Climbing and balancing are required for safe transport of patient.
	Balancing	F	
3.	Stooping	F	3. Patients are often found injured or sick in locations where removal is possible only through EMTs stooping, kneeling, crouching, or crawling.
	Kneeling	F	
	Crouching	F	
	Crawling	F	
4.	Reaching	F	4. Transporting life saving equipment, arm extension, handling carefully patients in fragile conditions, feeling to assess vital signs are part of the nature of this position.
	Handling	F	
	Fingering	F	
	Feeling	F	

5. **TALKING**
 Ordinary F
 Other NP

5. Responding to patients, physicians, and co-workers through hearing is necessary in transmitting patient information and following directions.

HEARING
 Ord. conv. F
 Other F

6. **SEEING**
 Acuity, Near F
 Acuity, Far F
 Depth Percptn F
 Accommodat F
 Color Vision F
 Field of Vision F

6. Sight is used to drive ambulances, distinguish landmarks, and visually inspect patients.

RATINGS: S L M H VH 2 3 4 5 6

Analyst Cathy Cain **Date** 1/25/92 **Estab. Reviewer**

Reviewer **Date** **Title** **Date**

7. **GENERAL EDUCATION** High school graduate or equivalent. Must be at least 18 years old.

8. **VOCATIONAL PREPARATION**

- a. **College:** None, however, some EMT courses are taught at local colleges.
- b. **Vocational Education Courses:** For EMT-Basic - 110 hours specialized training.
- c. **Apprenticeship:** None
- d. **Implant Training:** None
- e. **On-the-Job Training:** During course of training, students will have engaged in various clinical experiences in supervised hospital and field settings. Amount of time spent varies.
- f. **Performance on Other Jobs:** None

9. **EXPERIENCE** None

10. **ORIENTATION** None

11. **LICENSES, ETC.** Certification or Licensure.