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edit date:
2004

JOB FACT SHEET

1 Introduction See Page 4 in Guidebook

The collection of accurate, complete, up-to-date and gender neutral job information is essential to, and forms the basis of the job evaluation process.

This job fact sheet provides a format and serves as a questionnaire designed to describe a job, to capture the skill, effort and responsibility normally required in the work, and to record the conditions under which it is usually carried out. The job fact sheet focuses on **CURRENT** job content and requirements. **THIS IS NOT AN APPRAISAL OF YOUR PERFORMANCE ON THE JOB.**

Please read the job fact sheet carefully, and complete each section. Throughout the job fact sheet examples are requested and are important as you describe the job. Attach additional pages if necessary.

Your immediate out of scope supervisor or assigned job fact sheet reviewer (where appropriate) will review your completed job fact sheet. Feel free to keep a copy of the job fact sheet. Please complete the signature Section (17) on page 21.

Any changes, as mutually agreed with your supervisor/job fact reviewer are to be recorded in the specific job fact sheet section and initialed by both parties. Additional job holder comments can be recorded in Section (16) on page 21. Additional supervisor/reviewer comments can be recorded in Section (18) on page 22.

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2 Job Identification See Page 6 in Guidebook

Job Title ***Biomedical Engineering
Technologist***

JEC # 030

Name of person completing the job fact sheet for single employee job or contact person for multi-employee (group) job fact sheet submission.

REPRESENTATIVE JOB FACT SHEET

Home Telephone: _____

Work Telephone: _____

Health District _____

Facility/Agency _____

Department _____

Part-time Full-time Other (specify) _____

See Section (17) on page 21 for signatures.

Office use only:

3 Job Summary See Page 8 in Guidebook

Briefly describe the general purpose of this job. Consider "Why does this job exist?" and "What is this job responsible for?"

Assembles/installs/repairs, calibrates, inspects and performs preventative maintenance on biomedical equipment.

4 Key Work Activities See Page 10 in Guidebook

Consider the full range of job duties or responsibilities undertaken over the year. Summarize these in rough form before completing this section. **Group the job duties or responsibilities that are related and summarize them by a phrase, at the top of each box** (i.e. counselling and patient education; preventative maintenance; community involvement). Estimate (to the nearest 5%) the percentage of time per year spent on each key work activity summarized in the section(s) below. **The total of all key work activity sections should equal 100%**. For example: 1/2 day every day per year = 50%; 3 months per year = 25%; 2 1/2 weeks per year = 5%. (See Guidebook for other examples.)

After summarizing each key work activity, provide details or examples that describe the related job duties or responsibilities.

Key Work Activity A: Maintenance / Troubleshooting / Repair**Duties/Responsibilities:**

- ◆ *Plans/designs/builds and modifies solutions to existing equipment.*
- ◆ *Troubleshoots and repairs malfunctioning patient care equipment equipment may or may not be in use when it is being repaired.*
- ◆ *Provides engineering solutions for custom requirements or out-of-support equipment.*
- ◆ *Performs regular corrective and preventative maintenance in accordance with manufacture guidelines and ensures proper calibration for safe and efficient operation.*
- ◆ *Reviews Medical Alerts ensuring medical equipment is in compliance.*
- ◆ *Provides technical and service support to other Health Regions.*

Key Work Activity B: New Equipment Testing/Calibration

Duties/Responsibilities:

- ◆ *Analyses cost and benefit trends for equipment purchases.*
- ◆ *Evaluates new equipment prior to purchase.*
- ◆ *Develops installation and site plans for new equipment.*
- ◆ *Unpacks, assembles, inspects and calibrates all new equipment purchased according to manufacturer specifications.*
- ◆ *Installs new equipment.*
- ◆ *Writes, develops, modifies and implements operating and testing procedures.*
- ◆ *Participates in internal and external quality assurance/quality control programs as required by local protocol and government regulations/standards.*

Key Work Activity C: Documentation/Data Entry

Duties/Responsibilities:

- ◆ *Develops and maintains a comprehensive database for all medical systems, their components and scheduled maintenance.*
- ◆ *Organizes schedules to ensure equipment is available for planned maintenance.*
- ◆ *Maintains comprehensive logs of equipment maintenance and repairs.*
- ◆ *Aids in incident investigations involving medical equipment that affects patients or staff.*

Key Work Activity D: Education/Training

Duties/Responsibilities:

- ◆ *Researches and reviews new technologies and equipment.*
- ◆ *Acts as a medical equipment information resource for various departments.*
- ◆ *Conducts training for physicians, staff and patients on the operation and maintenance of various medical devices.*
- ◆ *Informs staff of possible problems that may occur and solutions to correct those problems.*
- ◆ *Informs users of upgrades and operational changes to medical equipment.*

Key Work Activity E: Inventory

Duties/Responsibilities:

- ◆ *Maintains spare parts inventory for high maintenance equipment.*
- ◆ *Orders parts for routine maintenance items.*
- ◆ *Provides cost-effective alternative parts solutions.*
- ◆ *Reviews service contracts for efficiency.*

6 Education and Specific Training See Page 16 in Guidebook

(a) What **minimum** level of completed schooling or formal training would be necessary for a **new person** being hired into this job?

Elementary School Grade 8

High School: Grade 9 Grade 10 Grade 11 Grade 12

Technical/Vocational /Community College 1 yr 2 yrs 3 yrs

Specify: (Do not use abbreviations) *Biomedical Engineering Technology diploma*

Licensed Trades: 1 yr 2 yrs 3 yrs 4 yrs 5 yrs

Specify: (Do not use abbreviations) _____

University: 3 yrs 4 yrs Masters

Specify: (Do not use abbreviations) _____

(b) Is any Provincial, National or professional certification mandatory? Yes No

Specify: (Do not use abbreviations) _____

(c) What additional special skills, training or licenses are needed to perform the job (please specify) and indicate length of course/program? (Do not use abbreviations)

- ◆ *Advanced computer skills*
- ◆ *Interpersonal and communication skills*
- ◆ *Ability to work independently*
- ◆ *Valid drivers license*

7 Experience See Page 18 in Guidebook

Estimate the **minimum** relevant experience gained prior to (a) and/or on the job (b), that is required for a new person with the education recorded in Section 6, to acquire the skills needed to carry out the requirements of this job.

(a) Required previous related job experience.

- None
- Up to 3 months
- 6 months
- 9 months
- 1 year
- 2 years
- 3 years
- 4 years
- 5 years
- More (specify years) _____

Describe the experience requirements gained on previous jobs here or elsewhere needed to prepare for this job (Do not include practicum or apprenticeship if covered in Section (6) education).

(b) Average time required on the job to learn and/or adjust to this job.

- 1 month or less
- 3 months
- 6 months
- 9 months
- 1 year
- 2 years
- 3 years
- More (specify years) _____

Describe the tasks and responsibilities that need to be learned in order to satisfy the requirements of this job.

- ◆ *Obtain vendor-specific training.*
- ◆ *Develop advanced knowledge of facility-specific biomedical equipment, applicable software.*
- ◆ *Become familiar with region/facility/department policies and procedures.*

8 Independent Judgement See Page 20 in Guidebook

All jobs require some independent action, but to varying degrees. Some jobs are highly structured and have many formal procedures, while others require judgements or actions that have no precedents to serve as a guide.

Consider the type and level of guidance provided to this job. Guidance can come from rules, instructions, established procedures, defined methods, manuals, policies, professional standards, precedents, leadership from others and direct supervision.

(a) To what extent does this job control its own work as opposed to being guided by influences such as rules, procedures, policies, supervisory presence or instructions directing actions required. **Please check the answer that most closely represents expected job requirements.**

- Most job requirements (to the extent possible) are set out within structure and rules and/or readily understood schedules to guide job tasks/duties required.
- Some restrictions apply, but the control over setting work priorities and pace of work is contained within the job.
- There are minimal restrictions, leaving significant control over the work being carried out within the scope of the job.
- Other (please explain).

(b) To what extent does this job exercise judgement to determine how the work is to be done? **Please check the answer that most closely represents expected job requirements.**

- Work is mostly repetitive and predictable with little need for judgement.
Example: _____
- Work may present some unusual circumstances that require judgement or choices to be made.
Example: _____
- Work presents difficult choices or unique situations that require judgement.
Example: *Repairing equipment during emergent situations. Repairing equipment where spare parts are unavailable or costs are prohibitive.*
- Other (please explain).

9 Working Relationships See Page 22 in Guidebook

- (a) What are the typical contacts or working relationships **necessary** in doing this job? For each contact listed below determine the purpose of the contact and **check off all that apply** in the chart below. **Do not include contact with those you supervise.**

Purpose of Contact

- A) No exchange
- B) Exchange of factual or work related information
- C) Explanation and interpretation of information or ideas
- D) Discussion of problems with a view to obtaining consent, cooperation and/or coordination of activities
- E) Counselling
- F) Secure cooperation of others for the development of services, programs, policies or agreements on behalf of the Program/Department
- G) Negotiation of service and/or supply agreements

Work Related Contact	Check Off All That Apply (more than one if applicable)						
	Purpose of Contact						
	A	B	C	D	E	F	G
Employees in the same department		✓	✓	✓			
Employees in another department/site/agency (specify)		✓	✓	✓			
Students	✓						
Managers/supervisors of programs/departments or services		✓	✓	✓			
Clients/patients/residents		✓					
Family of clients/patients/residents		✓					
Physicians		✓	✓	✓			
Business representatives		✓	✓	✓			
Suppliers/contractors		✓	✓	✓			
Volunteers	✓						
General public	✓						
Other health care organizations or agencies		✓	✓	✓			
Professional organizations/agencies		✓					
Government departments		✓					
Social Service establishments	✓						
Community Agencies	✓						
Police and Ambulance	✓						
Foundations	✓						
Others (specify)							

9 Working Relationships (cont d)

How often does your job require you to:

1 = Almost never
2 = Sometimes
3 = Often
4 = Most of the time

(b) Have to tell people things they don't want to hear?

Other employees	1	<u>2</u>	3	4
Client/patients/residents/families	<u>1</u>	2	3	4
The general public	<u>1</u>	2	3	4
Other (specify) _____	1	2	3	4

(c) Have contact with very upset or very angry:

Clients/patients/residents/families (not other workers)?	<u>1</u>	2	3	4
Outside groups (not other workers)?	<u>1</u>	2	3	4
General public	<u>1</u>	2	3	4
Other employees	1	<u>2</u>	3	4
Management	1	<u>2</u>	3	4
Physicians	1	<u>2</u>	3	4
Other (specify) _____	1	2	3	4

(d) Have contact with extreme/special needs clients/patients/residents?

	1	<u>2</u>	3	4
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Specify: *Equipment attached to clients in the Operation Room/Dialysis Laboratory/Critical Care areas*

(e) Talk with clients/patients/residents:

Get information from them	1	<u>2</u>	3	4
Inform them	1	<u>2</u>	3	4
Counsel them	<u>1</u>	2	3	4
Devise mutual goals/objectives with them	<u>1</u>	2	3	4
Check on their progress	<u>1</u>	2	3	4

(f) Talk with families:

Get information from them	1	<u>2</u>	3	4
Inform them	1	<u>2</u>	3	4
Counsel them	<u>1</u>	2	3	4
Devise mutual goals/objectives with them	<u>1</u>	2	3	4
Check on their progress	<u>1</u>	2	3	4

10 Impact of Action See Page 26 in Guidebook

When carrying out your job duties and responsibilities what is the likelihood that there would be an impact or outcome affecting the following? Such affects are typical and are not to be classed as carelessness, wilful neglect or extreme circumstances.

Safety of others

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Poorly maintained equipment could subject others to electrical/mechanical and radiation hazards.***

Client/patient/resident relations

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Inability to repair equipment may cause delays in service, inaccurate reporting of results, high stress in area serviced and patient discomfort.***

Family of clients/patients/residents

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Delays in service, rescheduled appointments or misdiagnosis.***

Provision of services

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Delays in repairs cause delays in services or cancellations of procedures or tests.***

Departmental/site/agency/district operations

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Requires district to reschedule services or cancel procedures.***

Equipment/instruments

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Equipment in poor repair may become unusable or inaccurate, forcing the district to purchase new, more expensive equipment.***

Reports and records

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Poor reporting could lead to suspension of services. Poor recording of repairs leads to missed Preventative Maintenance opportunities, equipment breakdown.***

Financial resources

Is an impact likely? Yes No

If yes, please provide an example(s)

- ◆ ***Poor maintenance requires equipment replacement or future more expensive repairs***

11 Leadership/Supervision See Page 28 in Guidebook

Leadership refers to the requirements of the job to supervise others, lead others, provide functional guidance or provide technical direction to enable others to carry out their job. Do not include clients/patients/residents.

Specify any jobs or work group as appropriate, under one or more of these categories. **Check all that apply and provide examples.**

Examples

- Provide occasional orientation to others. *Training of staff, doctors and other Health Care professionals*
- Assign and/or check work of others doing work similar to yours. _____
- Lead a project team; prioritize tasks, assign work, monitor progress to achieve planned outcome(s). _____
- Provide functional advice/instruction to others in how to carry out work tasks. *Equipment in-services, suppliers, staff*
- Provide technical direction as an expert in a field in order for others to carry out their primary job responsibilities. *Guides others in safe operation of vital systems*
- Provide input to appraisal, and/or hiring. _____
- Coordinate replacement and/or scheduling of employees. _____
- Supervise a work group; assign work to be done, methods to be used, and take responsibility for all the group. _____
- Supervise the work, practices and procedures of a defined program. _____
- Supervise the work, practices and procedures of a department. _____
- Provide counselling and/or coaching to others. _____
- Provide health promotion/outreach (teaching/instruction). _____
- Other (specify) _____

12 Responsibility for Resources See Page 30 in Guidebook

Responsibility for resources refers to the responsibility of the job for determining the use of resources, setting service standards and/or monitoring the results produced by others.

Determining the use of resources affects the way resources such as information, material, processes, instrumentation, equipment, technology and finances are utilized at the workplace in order to contribute to the control and/or flow of work.

While all jobs have a responsibility to ensure quality, service and/or performance criteria established for the job are met, some jobs are also responsible for setting service standards and/or monitoring the results produced by other jobs.

From the following, please check all that apply.

	Examples
<input checked="" type="checkbox"/> Provide input for the evaluation of services delivered.	<i>Equipment purchases. Viability of purchase contracts</i>
<input checked="" type="checkbox"/> Make resource allocation choices.	<i>Repair or replace decisions. Capital purchases</i>
<input checked="" type="checkbox"/> Design programs and/or services for delivery.	<i>Preventative Maintenance programs</i>
<input checked="" type="checkbox"/> Develop new methods and/or procedures.	<i>Equipment service/testing procedures</i>
<input checked="" type="checkbox"/> Modify established methods and/or procedures.	<i>Equipment service/testing procedures</i>
<input checked="" type="checkbox"/> Establish tests and/or service standards.	<i>Preventative Maintenance, calibration per factory specifications</i>
<input checked="" type="checkbox"/> Verify accuracy of information provided by others.	<i>Test new equipment</i>
<input checked="" type="checkbox"/> Select vendors/contractors for supply of goods and services.	<i>Finding cost-effective parts and service contracts</i>
<input checked="" type="checkbox"/> Prioritize order/sequence of tasks carried out.	<i>Evaluates priorities frequently</i>
<input checked="" type="checkbox"/> Determine training needs for others.	<i>Training for new equipment</i>
<input checked="" type="checkbox"/> Approve expenditures and/or commitment of resources.	<i>Purchasing parts. Viability of replace/repair</i>
<input type="checkbox"/> Edit reports produced by others.	_____
<input type="checkbox"/> Address changes in conditions that affect client/patient care plan.	_____
<input type="checkbox"/> Develop expenditures for budget planning.	_____
<input checked="" type="checkbox"/> Develop internal control procedures.	<i>Preventative Maintenance plan</i>
<input checked="" type="checkbox"/> Ensure compliance with regulations.	_____
<input type="checkbox"/> Other (specify)	_____

13 Physical Demands See Page 32 in Guidebook

(a) What **physical effort** is required on a **regular** basis for your job? Please provide examples that are applicable to your job.

Indicate the duration of time that the activity is present during the normal workday or shift. (e.g. For an 8 hour shift 6 hrs = 75%, 4 hrs = 50%, 2 hrs = 25%, 1 hr = 12%, ½ hr = 6%). **Percentages may not add to 100%.**

Place a checkmark in the chart below indicating the frequency of occurrence over a year. Indicate weight where applicable.

Light weight up to 9 kg/20 lbs

Medium weight over 9 kg/20 lbs

Heavy weight over 23 kg/50 lbs

Occasional - means the activity occurs once in a while.

Frequent - means the activity occurs often.

Continuous - means the activity occurs almost every day.

ACTIVITY EXAMPLES	WEIGHT	DURATION	FREQUENCY		
	Light, Medium, Heavy (specify)	Approximate % of time/day	Occasional	Frequent	Continuous
<i>Transporting of equipment</i>	<i>L - H</i>	<i>10%</i>			✓
<i>Standing/walking</i>	<i>L</i>	<i>30%</i>			✓
<i>Sitting at work bench</i>	<i>L</i>	<i>40%</i>			✓
<i>Working in awkward/uncomfortable positions, climbing, crouching</i>	<i>L - M</i>	<i>20%</i>			✓
<i>Storing supplies</i>	<i>L</i>	<i>5%</i>		✓	

14 Sensory Demands (cont d)

(b) Does your job require that you **Listen Attentively**? Please provide examples that are applicable to your job.

Indicate the duration of time that the activity is present during the normal workday or shift. (e.g. For an 8 hour shift 6 hrs = 75%, 4 hrs = 50%, 2 hrs = 25%, 1 hr = 12%, ½ hr = 6%). **Percentages may not add to 100%.**

Place a checkmark in the chart below indicating the frequency of occurrence over a year.

Occasional - means the activity occurs once in a while.

Frequent - means the activity occurs often.

Continuous - means the activity occurs almost every day.

ACTIVITY EXAMPLES	DURATION	FREQUENCY		
	Approximate % of time/day	Occasional	Frequent	Continuous
<i>Taking direction</i>	<i>10%</i>			✓
<i>Listen to medical equipment</i>	<i>25%</i>			✓
<i>Listen to staff describe symptoms</i>	<i>30%</i>			✓

(c) Must attention be shifted frequently from one job detail to another?

Yes
 No

*If yes, please give examples: **Job priorities are constantly changing from preventative maintenance to urgent repair, phone messages, receiving new/repaired equipment***

15 Working Conditions See Page 40 in Guidebook

(a) Are you exposed to some degree of **unpleasantness** in the day-to-day activities of your job? **Check all conditions that apply to you, and indicate only one of "occasional", "frequent", "continuous".**

Occasional - means the condition occurs once in a while.

Frequent - means the condition occurs often.

Continuous - means the condition occurs almost every day.

CONDITION (specify if applicable)	OCCASIONAL	FREQUENT	CONTINUOUS
Blood/body fluids		✓	
Chemical substances (specify)			✓
Cold			
Congested workplace	✓		
Dust	✓		
Extreme temperature			
Foul language	✓		
Grease		✓	
Head lice			
Heat			
Inadequate lighting			
Inadequate ventilation			
Insects, rodents, etc.			
Interruptions			✓
Isolation			
Latex	✓		
Moisture			
Mold	✓		
Multiple deadlines			✓
Noise		✓	
Odour		✓	
Oil	✓		
Radiation exposure (specify)		✓	
Second hand smoke			
Soiled linens			
Steam	✓		
Transporting or handling human remains			
Travel		✓	
Vibration	✓		
Other (specify)			
<i>Solder fumes</i>	✓		

15 Working Conditions (cont d)

(b) Is there some degree of exposure to **hazards** in the day-to-day activities of your job? **Check all hazards that apply to you, and indicate only one of "occasional", "frequent", "continuous".**

Occasional - means exposed to hazards once in a while.

Frequent - means exposed to hazards often.

Continuous - means exposed to hazards almost every day.

HAZARD (specify if applicable)	OCCASIONAL	FREQUENT	CONTINUOUS
Abusive clients	✓		
Blood/body fluids		✓	
Chemical substances (specify)	✓		
Travelling in inclement weather	✓		
Excessive/unpredictable weights	✓		
Exposure to infectious disease (specify)		✓	
Extreme noise	✓		
Faulty/inadequate equipment	✓		
Personal injury	✓		
Personal safety at risk due to isolation			
Radiation exposure (specify)		✓	
Sharp objects		✓	
Small aircraft			
Steam	✓		
Verbal and/or physical abuse	✓		
Video display terminal			✓
Violence			
Working from heights	✓		
Other (specify) <i>Lasers</i>	✓		

(c) Do you have to take certain training, precautions or wear protective clothing to avoid a work injury? (Check one and provide an explanation or example of the type of precaution(s) normally taken).

Yes

No

Please explain your answer: *Required to wear personal protective equipment as appropriate (e.g. gloves, goggles, aprons, respirator, lead apron, isolation gown)*

16 Other Comments See Page 44 in Guidebook

Please add any additional information or comments and reference the specific job fact sheet section and question as appropriate.

USE ADDITIONAL SHEETS IF NECESSARY.

17 Signatures See Page 46 in Guidebook

(a) Single job submission

Signature: _____

Date: _____

(b) Multiple job/group submission

Signatures:

Date: _____

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