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#### **ABSTRACT**

This document contains validated activities and competencies needed by information professionals working in an information analysis center. The activities and competencies are organized according to the functions which information professionals in such centers perform: acquisitions; indexing/abstracting; reference; information analysis research; and organization/management support. Within each function, competencies are grouped under the categories of Knowledge, Skills, and Attitudes, and three professional levels are dealt with: entry level (0-3 years experience), mid-level (4-9 years experience), and senior level (10 or more years experience). (THC)

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NEW DIRECTIONS IN LIBRARY AND INFORMATION SCIENCE EDUCATION FINAL REPORT VALUE 2.10 INFORMATION ANALYSIS CENTER PROFESSIONAL COMPETENCIES

1984

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# VOLUME TWO: SPECIFIC COMPRESENCIES

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#### TWINGOODCITTON

This document contains validated activities and competencies needed by information professionals working in an information analysis center. The following operational definition of competency was developed:

> A competency is a generic knowledge, skill or attitude of a person that is causally related to effective behavior as demonstrated through external performance criteria, where:

- Knowledge is having information about, knowing, understanding, being acquainted with, being aware of, having experience of, or being familiar with something, someone, or how to do something.
- Skill is the ability to use one's knowledge effectively.
- Attitude is a mental or emotional approach to something, or someone.

We have identified several types of knowledge that are necessary to perform information work satisfactorily as follows:

- Basic knowledge in such areas as language, communication, arithmetic operations, etc.
- <u>Subject knowledge</u> of primary subject fields of users served such as medicine, chemistry, law, etc.
- <u>Library and information work environments</u> such as the information community, its participants and their social economic and technical interrelationships, etc.
- Knowledge of what work is done such as the activities required to provide services and produce products, etc.
- Knowledge of the organization or user community served such as the mission, goals, and objectives of the user or the organization, user's information needs and requirements, etc.



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There appear to be three kind; of skills necessary to perform information work satisfactorily including:

- Basic skills such as cognitive, communication, analytical, etc.
- <u>Skills related to each specific activity</u> being performed such as negotiation of reference questions, evaluation of search outputs, etc.
- Other skills such as menaging time effectively, budgeting and making projections, etc.

Attitudes of information professionals are found to be extremely important to work performance. We have found it useful to subdivide attitudes into:

- <u>Dispositional attitudes</u> toward one's profession, the organization served, one's work organization, and other people such as users and co-workers.
- Personality traits/qualities such as confidence, inquisitiveness, sense of ethics, flexibility, etc.
- Attitudes related to job/work/organization such as willingness to accept responsibility, willingness to learn, desire to grow, etc.

The activities and competencies are organized according to the functions which information professionals perform, and by professional level as displayed in Figure 1. The competencies are cumulative across professional level, i.e., competencies of mid-level professionals include entries shown at the mid-level as well as those at the entry level, etc.

It is important to understand the distinction between functions performed and positions or job titles. Our rationale behind the functional approach was that we were more concerned with what information professionals do than with what they are called. In a single-person center, therefore, the information professional will undoubtedly perform more than a single function. In using and interpreting the competency data in this document, it is important to consider the functions being performed by



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ACTIVITIES	
<b>Essential</b> Versus Desirable	More versus Less Important in Puture
ENTRY LEVEL	EMIRY LEVEL
MID LEVEL	MID LEVEL
SENTOR LEVEL	SENTOR LEVEL

ENCH.EDCE		
Essential Versus Desirable	More versus Less Important in Puture	
EVITO LEVEL	entry Level	
MID LEVEL	MID LEVEL	
SENIOR LEVEL	SENIOR LEVEL	

3	SKILLS	
Essential Versus Desirable	More versus Less Important in Future	
ENTRY LEVEL	entry level	
MID LEVEL	MID LEVEL	
SPNIOR LEVEL	SENTOR LEVEL	

ATTIT	MOVADES		
<b>Essential</b> Versus Desirable	More versus Less Important in Future		
acontinose.	n rotate		
ENTRY LEVEL	ENTRY LEVEL		
MTD LEVEL	MID LEVEL		
SENTOR	SENTOR		
LEVEL	LEVEL		

Pigure 1 Organization of Activities and Competencies

professionals and the activities being performed to determine which competencies are appropriate. The functions identified for information professionals working in information analysis centers are:

- acquisitions
- indexing/abstracting
- reference
- information analysis research
- organization/management support.

Three professional levels were defined as follows:

- entry level (up to 3 years of professional experience)
- mid level (4-9 years of professional experience)
- senior level (10 or more years of professional experience).

The activities performed are listed first and numbered sequentially. The actual assignment of individual activities to subcategories of the major activities and to the functions varies from one worksetting to another. The organization of activities that we developed provided us with the "best fit" case. Indented and unnumbered activities are essentially paraprofessional activities which, in small organizations, may be performed by professionals.

# INFORMATION ANALYSIS CENTER PROFESSIONAL COMPETENCIES ACQUISITIONS



#### **MITTYTTES**

**ACOUISITIONS** 

ENTRY LEVEL

#### Selection

- 1. Develop a good understanding of the center's policies and guidelines for data collection
- Receive citations from organization staff for serials/numbered series, selected monographs, reports, conference and workshop proceedings, audiovisuals, unpublished materials, free materials, research in progess, etc.
- 3. Select materials to order from publishers' catalogs, book reviews, bibliographies, etc.
- 4. Examine shipments of unsolicited materials (blanket orders/on-approval shipments, deposited materials, gifts, etc.) to select which items are suitable for retention; annotate processing slips for each item as required
- 5. Assign processing priorities to all material selected for processing
- 6. Maintain a statistical record of selection and the usefulness of various selection tools

## <u>Yerification</u> and Ordering

- 7. Determine source of procurement for each item ordered (jobber, direct, gift, exchange, etc.)
- 8. Supervise ordering/claiming of materials:

verify and locate additional bibliographic data as required; refer problems to supervisor

search records to determine if material is already on order/requested

prepare/input subscription and non-subscription orders/requests, including the proper "ship to" addresses for materials to be indexed off-site

prepare/generate purchase orders, if required

prepare c.der/request documentation for mailing, or place orders/ requests online with the appropriate suppliers

forward order documentation to the fiscal control staff for coordination and mailing, if required

claim outstanding orders/requests

claim missing issues of serials/numbered series

cancel orders, as required

re-issue orders/requests to different sources as required order/request replacement copies of damaged/lost materials process subscription renewals

maintain a statistical record of ordering operations



#### **MITTUITIES**

MOQUISITIONS

ENTRY LEVEL

- 9. Supervise ordering/requesting sample issues of serials/numbered series for "eview by mid level staff
- 10. Search for trade and non-trade bibliographic information that technicians are unable to locate; refer problems to higher level staff, as appropriate

## Receipt Processing

11. Supervise receipt processing of all types of materials:

sort incoming items, as appropriate

search appropriate file to locate the records

refer to the supervisor items which differ bibliographically from the item ordered/requested

update records with receipt of individual items/issues/numbers/parts

create records for unsolicited materials which are to be processed flag serial records for gap filling, as required

assign an accession number or other locator information to each item received

record/affix locutor information on each piece; may be bar code/ OCR label to allow for tracking of materia', from time of receipt through completion of the processing cycle

input bibliographic data (standard journal title abbreviation, volume, issue or bibliographic information for monographs, etc.) on the indexing form/record for each item received; (this activity may involve transfer of data from one automated file to another, rather than actual data input on the indexing form/record)

mark materials with the organization's icantification

affix security labels, if required

place new serial titles on the appropriate shelf for special file maintenance

place serials which have title changes on the appropriate shelf for file maintenance

place materials for indexing on the appropriate trucks

deliver trucks to proper locations

send form letters to acknowledge deposited materials/gifts, if appropriate

annotate receipt on packing slips/invoice copies, if received, and forward to the fiscal control unit

annotate packing slips/invoice copies for damaged/imperfect or unwanted hardbound series; forward documentation to the fiscal control unit



#### **MITTUITIES**

**ACQUISITIONS** 

ENTRY LEVEL

# Receipt Processing (cont'd)

11. Supervise receipt processing of all types of materials (cont'd):

prepare damaged/imperfect materials, incorrectly supplied materials, and unwanted materials for return to suppliers, if appropriate
place surplus materials in specified area to await proper disposal maintain record of receipt processing statistics

## File Maintenance

12. Supervise creation and maintenance of records for non-serial materials

input orders/requests, unsolicited receipts
update records based on correspondence received and actions taken
update records with receipt, return and disposal information
delete records at appropriate levels
maintain statistical records of file creation and maintenance
operations

13. Supervise creation and maintenance of serial records:

#### Other

- 14. Handle problems related to selection, ordering and receipt processing of all types of materials and to overall maintenance of the records; refer problems to higher level staff, as appropriate.
- 15. Keep abreast of developments in the information field, library practice, or legislation that affect acquisition and processing of serials/numbered series, monographs, conference proceedings, audiovisuals, unpublished materials, etc.



#### **ACTIVITIES**

ACQUISITIONS MID LEVEL

#### Selection

- 16. Review sample issues of serials/numbered series to determine which titles should be acquired regularly
- 17. Keep abreast of changing information needs in the subject field(s) of interest to the center; notify staff of any changes

## <u>Verification and Ordering</u>

- 18. Develop procedures for the verification and ordering of serials/ rumbered series and/or other materials selected for processing
- 19. Supervise the maintenance of an address file of procurement sources
- 20. Draft form letters for acknowledging deposited materials/gifts, requesting deposit of materials, ordering serials and other materials, claiming/cancelling orders, claiming missing issues, ordering replacement issues, etc.
- 21. Work with the appropriate fiscal office to schedule purchases of materials and renewal of subscriptions in order to operate within the budget
- 22. Work with the appropriate fiscal office to develop procedures for the handling of the final steps in ordering and invoice processing
- 23. Identify sources for filling gaps

#### Receipt Processing

24. Develop procedures for receipt processing of all types of materials

#### File Maintenance

- 25. Develop procedures for maintenance of records for order/receipt control of serial and non-serial materials
- 26. Make preliminary selection of forms and/or develop draft record formats for all section files

#### Fiscal Control

27. Work with the appropriate fiscal office of the parent organization to identify requirements and develop draft procedures for purchasing materials and services (e.g., open ended subscriptions, dealer check-in)



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#### **MITIVITYES**

#### **ACOUISITIONS**

MID LEVEL

#### Fiscal Control (cont'd)

- 28. Work with the appropriate fiscal office to develop procedures for proper packing slip/invoice handling and receipt certification by section staff
- 29. Assist the appropriate fiscal office in resolving any problems related to payment for materials
- 30. Remain aware of the expenditures and balances in the materials account(s); notify the section manager of situations which may require special action
- 31. Develop projected budget requirements for purchasing materials for the new fiscal year

## ACQUISITIONS

SENIOR LEVEL

#### Selection

- 32. Select and maintain an up-to-date collection of selection tools and aids to bibliographic verification
- 33. Work with senior level staff from the indexing/abstracting, reference, information analysis/research sections to formulate draft selection policies for all types of materials to be processed (fully or selectively) by the center so that it may provide appropriate information coverage in the subject field(s) within its scope of interest; recommend revisions to the policies as required
- 34. Prepare draft selection guidelines to be used by section staff as an aid to interpreting selection policies; draft revisions as required
- 35. Periodically review staff selections to ensure more uniform interpretation of the selection policies; conduct training sessions as required
- 36. Together with senior level information analysis/research staff and reference staff, identify organizations/institutions which produce information in the subject field(s) which are major interest to the center
- 37. Work with senior level information analysis/research staff and reference staff to evaluate the existing data collection(s) and identify areas of weakness



#### **MITVITLES**

**ACCUISITIONS** 

SENIOR LEVEL

#### Selecton (cont'a)

- 38. Prepare lists of materials to be purchased or requested in order to upgrade areas of weakness in the data collection(s)
- 39. Together with information analysis/research staff and reference staff, compile lists of reference books and standard works that comprise a basic collection in each major subject area within the center's scope of interest. New editions of these materials are purchased automatically

## Receipt Processing

- 40. Work with senior staff of the indexing/abstracting section to establish procedures and resolve problems related to the timely receipt of materials for indexing and the input of bibliographic data on indexing forms/records by section staff
- 1. Work with senior staff and quality and production control staff of the indexing/abstracting section and with data processing staff to develop plans and procedures for using the acquisitions files for tracking materials from the time of receipt through completion of the processing workflow

#### Other

- 42. Function as a technical expert in all matters related to selection and acquisition of materials for processing
- 43. Interview dealers' representatives to learn about the particular services they offer
- 44. Identify dealers who have a good performance record in supplying irregular serials, congress/conference proceedings, and other materials which are difficult to acquire
- 45. Assist the section manager in negotiating with dealers' representatives to obtain the required level of service in acquiring and/or processing materials
- 46. Evaluate dealers' performance and report to section manager
- 47. Draft documentation to support cooperative agreements with organizations/institutions which produce information in the subject field(s) of interest to the center; request deposit of copyrighted and uncopyrighted materials, particularly fugitive documents (e.g., unpublished documents, project reports, preprints, texts of speeches, conference papers, curriculum guides, instructional materials)



## **ACTIVITIES**

**ACQUISITIONS** 

SENIOR LEVEL

# Other (cont'd)

48. Evaluate the participation of these primary information producers in depositing unpublished and non-trade materials with the center; suggest methods to effect increased cooperation from them



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#### NOLEDER

**ACCUISITIONS** 

ENTRY LEVEL

## Basic knowledge

knowledge related to literacy, numeracy, communications, etc.

## Subject knowledge

knowledge of the primary subject fields of interest to the organization
 (e.g., economics, history, area studies, education, medicine,
 chemistry, law, etc.)

knowledge in greater depth in specific subjects (e.g., public affairs, international affairs, military affairs, education of specific groups, etc.)

knowledge of foreign languages

## <u>Library & Information Science Knowledge</u> (Generic)

knowledge of definition, structure, and formats of information

knowledge of alternative approaches to the organization of information

knowledge of alternative approaches to retrieval of information

knowledge of alternative approaches to information management

knowledge of available and emerging information technologies and their applications

knowledge of completed and ongoing research in the field and its applicability to practice

knowledge of career opportunities

knowledge of how to learn on an ongoing basis

#### Knowledge about information work environments

knowledge of the expanding information community, its participants and their interrelationships (social, economic, technical, etc.)

knowledge of the variety of work settings and their organizational structures

knowledge of the functions performed within the various work settings and the services and products offered

knowledge of the users of the services and products, their characteristics and information habits



**ACCUISITIONS** 

ENTRY LEVEL

## Knowledge of what work is done

knowledge of the acquisitions function, the range of services and products offered (both actual and potential)

knowledge of the activities that are required to offer the services and produce the products

knowledge of the various resources that are necessary to support the activities

knowledge of acquisitions tools and sources of bibliographic information

knowledge of acquisitions methods and techniques for published and unpublished materials

knowledge of job responsibilities

knowledge of performance expected and how it can be measured

#### Knowledge of how to do work

knowledge of how to perform the various activities
knowledge of how to use the acquisitions tools and sources of
bibliographic information
knowledge of how to apply the acquisitions methods and techniques

## Knowledge of the organization and the specific work unit

knowledge of the mission, goals and objectives of the organization knowledge of the structure of the organization and the role of the acquisitions section within the organization knowledge of the various projects and key personnel within the

organization

knowledge of the policies and procedures relevant to section operations knowledge of the various resources available within the organization (e.g. personnel, equipment, etc.)

knowledge of the information needs and requirements to support the mission, goals and objectives of the organization knowledge of the organization's information collection



#### ACQUISITIONS

MID LEVEL

greater depths of knowledge specified above

knowledge of the operations of other sections in the organization and how they relate to acquisitions

knowledge of available vendor-supplied systems, services and products to support acquisitions

knowledge of the contracting process, both in general and within the organization

knowledge of evaluation methods and techniques to evaluate systems, services and products

## ACQUISITIONS

SENIOR LEVEL

greater depths of knowledge specified above

knowledge of producers of published, unpublished information and non-trade materials in specific subject areas

knowledge of public relations techniques

knowledge of statistical description, analysis, interpretation and presentation

knowledge of the costs associated with resources (materials, personnel, space, etc.)

knowledge of cost analysis and interpretation methods

knowledge of methods of resource allocation

state-of-the-art knowledge of research and practice as it relates to the acquisition of print and non-print materials and the support of data collection in specific subjects



#### SKILLS

**ACOUISITIONS** 

ENTRY LEVEL

#### Basic Skills

literacy, numeracy, cognitive, analytical, communications, etc.

## Skills Pelated to Specific Activities

Ability to:

perform each activity use computer and telecommunications equipment/systems with ease perceive the information needs of in-house staff properly interpret collecting quidelines establish rapport with colleagues and with staff/representatives of dealers, jobbers, etc. communicate well by written, verbal and non-verbal means listen carefully obtain/elicit required information from informal sources collect, analyze and inverpret data make decisions and recommendations be sed on available information work independently and in groups develop criteria for evaluation make effective, timely, and well-informed decisions isolate and define problems and develop the necessary criteria and action for their solution manage time effectively conduct meetings with individuals and groups supervise staff

ACQUISITIONS

MID LEVEL

## Skills Related to Fach Specific Activity

Skills listed above are developed to a greater extent

perceive new information needs where none have been required previously develop procedures to maintain control of fiscal affairs communicate with data processing staff and other support/contract staff on a technical level arbitrate and negotiate with contractors'/dealers' representatives



#### SKITIS

#### **ACQUISITIONS**

SENIOR LEVEL

Skills listed above are developed to a greater extent

develop collecting policy quidelines
estimate the cost of obtaining materials to support the information
needs of the organization
effect support from information producers (trade and non-trade)
anticipate long-range needs of the section and of the organization
identify and define gaps in information coverage
design systems and procedures to improve operations of the section and
of the organization
apply methods of measurement and evaluation
budget and make projections
optimize the use of organizational and section resources



#### ATTITUDES

## **ACQUISITIONS**

## Dispositional Attitudes

## Attitudes Toward Institutions

Respect for profession
Respect for the section
Respect io the parent organization

## Attitudes Toward Other People

## Toward Users

Respect users
Like people in general
Like to help people
Like to meet people
Like to make others feel comfortable
Sensitive to others' needs

## Toward Others in the Workplace

Respect co-workers
Like to work with others/as a team
Like to work on own.
Willingness to draw upon and share knowledge and experience with others
Supportive of co-workers
Enjoy managing/supervising others

#### Personal Oualities

Alertness
Assertiveness
Compassion/Kindness
Confidence
Cheerfulness
Dependability
Determination/Tenacity
Diplomacy
Emotional stability
Fairness
Flexability/Versatility
Imagination
Inquisitiveness
Leadership chility
Neatness
Need for achievement



#### MENTERS

## ACQUISITIONS

#### Personal Qualities (cont'd)

Objectivity
Open-mir.dedness
Optimism/Positive attitude
Organization
Patience
Physical endurance
Resourceful
Sensitive/Thoughtful
Sense of humor
Sense of ethics
Tolerance

## Attitudes Related to Job/Work/Organization

# Individual should demonstrate:

Willingness to take/accept responsibility Willingness to take initiative Willingess to respond to authority, apply and follow policy Realization that there is no single "right" way to achieve the goals of the section/organization Desire to learn/try Willingness to fail Willingness to ask questions Desire to work to best of ability Responsiveness to time constraints Accuracy Willingness to get hands dirty Attention to detail Willingness to do clerical tasks Desire to follow-through Service orientation Organizational identity Willingness to promote parent organization and its services View of parent organization as part of a larger information environment Ability to see broad picture Ability to sacrifice short-term gains for long-term goals Political sense Curiosity Variety of interests Desire to grow personally Desire to grow professionally Desire to remain current in specific and general subject field Positive attitude toward job



# INFORMATION ANALYSIS CENTER PROFESSIONAL COMPETENCIES INDEXING/AMPTRACTING



#### **MITVITIES**

#### INDEXING/ABSTRACTING

ENTRY LEVEL

- 1. Receive material to be indexed, as assigned by senior staff
- 2. Log in each item as indexing begins
- 3. Review preliminary data (standard journal title abbreviation or other title information, volume, issue, pagination, article/chapter title, author(s), arthor affiliation, abstract, and other information) entered on the indexing form/record for accuracy
- 4. Make corrections to preliminary data, if required
- 5. Translate foreign language titles, if required, and enter on the indexing form/record
- 6. Read/scan the item to be indexed and identify the main theme and sub-themes
- 7. Enter check tag data on the indexing form/recard, if applicable
- 8. Select the appropriate headings/heading-subheading combinations from the approved thesaurus, if a controlled vocabulary is used by the organization
- 9. Enter the headings/heading-subheading combinations on the indexing form/record, if applicable
- 10. Translate foreign language abstracts, if required
- 11. Prepare abstracts or annotations, as required
- 12. Add comments/questions for the reviser on the indexing form/record, if necessary

#### Other

- 13. Complete necessary forms to suggest changes/additions to the approved thesaurus, if applicable; forward forms to the revisor
- 14. Keep abreast of developments in the information field that affect indexing and abstracting



#### **MITVITIES**

## INDEXING/ABSTRACTING

MID LEVEL

#### Other (cont'd)

- 15. Index and abstract the more difficult materials and the selectively indexed/abstracted materials
- 16. Index and abstract materials/information which may be particularly sensitive in nature

## Quality and Production Control

- 17. Receive materials to be indexed from the acquisitions section
- 18. Receive information from the information analysis/research section for indexing and inclusion in the master information file
- 19. Review materials for presence of proper locator labels; may be bar code/OCR labels to allow for tracking of materials in process
- 20. Review indexing forms/records for accuracy of bibliographic/identifier data input by acquisitions staff
- 21. Create indexing forms/records for information not processed by the acquisitions section
- 22. Forward materials for descriptive indexing to in-house/contract staff:
  - editorial staff mark article/chapter title, author(s), author affilitation, abstract, and other pertinent information keyboarding staff input data
- 23. Keep a record (manual/automated) of the location of materials in process
- 24. Review/spot check accuracy of editorial and keyboarding staff/contractor
- 25. Forward materials to be distributed for indexing to the appropriate senior indexer
- 26. Draft statements of work for requests-for-proposals for contract data entry
- 27. Evaluate contractors' proposals
- 28. Act as project officer for contract services for data entry



#### MITVITIES

## INDEXING/ABSTRACTING

MID LEVEL

#### Other

- 29. Work with mid-level staff of the information analysis/research and reference sections to develop and modify, as required, the detailed design and planned operating procedures for the master information file.
- 30. Supervise all activities (in-house and contract) relating to creation and maintenance of records in the master information file
- 31. Receive listings from the information analysis/research section of records which are to be deleted from the master information file and terms which are to be deleted from the file's online dictionary (if applicable)
- 32. Prepare/update manuals of procedures for in-house technicians and for data entry contractors
- 33. Work with a senior indexer (reviser) on a one-to-one basis to learn revision procedures and to develop the necessary skills
- 34. Participate in in-house committees which require specific subject and/or language expertise

#### INDEXING/ABSTRACTING

SENIOR LEVEL

- 35. Function as a technical expert/reviser in the section
- 36. Distribute work to indexers according to priority and language and/or subject expertise
- 37. Revise/review the work of all in-house/contract indexers
- 38. Respond to questions posed by revisees
- 39. Supervise the forwarding of all processed materials to the proper organizational unit for storage or disposal
- 40. Document performance of revisees
- 41. Prepare and conduct formal training/update classes for all in-house/contract indexers



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#### INDEXING/ABSTRACTING

SENIOR LEVEL

#### Other

- 42. Keep abreast of bibliographic standards for indexing and abstracting; incorporate these standards into section procedures
- 43. Work with the section manager to determine/revise the processing priority guidelines for all titles/single items indexed
- 44. Work with data processing staff and appropriate advisors to develop measures to ensure the security of the data contained in the master information file
- 45. Resolve problems related to the operation and maintenance of the master information file
- 46. If applicable, work with senior staff of the thesaurus development and control section and data processing staff to develop procedures for regular maintenance of subject headings in the master information file which have been changed in or deleted from the thesaurus database
- 47. Develop and maintain appropriate search profiles to retrieve subsets of the master information file for processing for distribution as separate publications/databases
- 48. Recommend new products which may be generated from the master information file
- 49. Work with senior staff of the acquisitions section to establish procedures and resolve problems related to the timely receipt of materials for indexing and input of bibliographic data on the indexing form/record by acquisitions staff
- 50. Work with senior level staff from the acquisitions, reference, and information analysis/research sections to formulate draft selection policies for all types of materials to be acquired and processed (fully or selectively) by the center; recommend revisions as required
- 51. If applicable, review indexing staff suggestions for changes/additions to the approved thesaurus; confer with section manager and other senior level indexers, as appropriate
- 52. Act as liaison between the indexing section and the thesaurus control section on all questions related to use/modification of the approved thesaurus



## **ACTIVITIES**

INDEXING/ABSTRACTING

SENIOR LEVEL

## **Other**

- 53. Prepare/update manuals of indexing and abstracting policies and procedures for in-house/contract indexers
- 54. Maintain an up-to-date collection of reference works to support the respective subject reference needs of the indexers



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#### **ENDLEDGE**

#### INDEXING/ALSTRACTING

ENTRY LEVEL

## Basic knowledge

knowledge related to literacy, numeracy, communications, etc.

## Subject knowledge

knowledge of the primary subject fields of interest to the organization (e.g., economics, history, area studies, education, medicine, law, etc.)

knowledge in greater depth in specific subjects, (e.g., public affairs, international affairs, military affairs, education of specific groups, etc.)

knowledge of foreign languages

## Information Science Knowledges (Generic)

knowledge of definition, structure, and formats of information

knowledge of alternative approaches to the organization of information

knowledge or alternative approaches to retrieval of information

knowledge of alternative approaches to information management

knowledge of available and emerging information technologies and their applications

knowledge of completed and ongoing research in the field and its applicability to practice

knowledge of career opportunities

knowledge of how to learn on an ongoing basis

#### Knowledge about information work environments

knowledge of the expanding information community, its participants and their interrelationships (social, economic, technical, etc.)

knowledge of the variety of work settings and their organizational structures

knowledge of the functions performed within the various work settings and the services and products offered

knowledge of the users of the services and products, their characteristics and information habits

#### Knowledge of what work is done

knowledge of the indexing and abstracting functions, the range of services and products offered (both actual and potential)

knowledge of the activities that are required to offer the services and produce the products

knowledge of the various resources that are necessary to support the activities

knowledge of indexing tools



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#### KNOW EDGE

## INDEXING/ABSTRACTING

ENTRY LEVEL

## Knowledge of what work is done (cont'd)

knowledge of indexing and abstracting methods and techniques

knowledge of job responsibilities

knowledge of performance expected and how it can be measured

# Knowledge of how to do work

knowledge of how to perform the various activities

knowledge of how to use the indexing tools

knowledge of how to apply the indexing and abstracting methods and techniques

## Knowledge of the organization and specific work unit

knowledge of the mission, goals and objectives of the organization

knowledge of the structure of the organization and the role of the section within the organization

knowledge of the various projects and key personnel within the

organization

knowledge of the policies and procedures relevant to section operations knowledge of the various resources available within the organization (e.g. personnel, equipment, etc.)

knowledge of the information needs and requirements to support the

mission, goals and objectives of the organization knowledge of the organization's information collection

# INDEXING/ABSTRACTING

MID LEVEL

greater depths of knowledge specified above

knowledge of the operations of other sections in the organization and how they relate to indexing/abstracting

knowledge of available vendor-supplied systems, services and products to support indexing/abstracting

knowledge of the contracting process, both in general and within the organization

knowledge of evaluation methods and techniques to evaluate systems, services and products

knowledge of the quality and production control techniques and procedures

knowledge of general methods for maintaining security of databases



#### KNOWLEDGE

## INDEXING/ABSTRACTING

SENIOR LEVEL

greater depths of knowledge specified above

knowledge of the relative value/importance of information from various sources

knowledge of statistical description, analysis, interpretation and presentation

knowledge of cost analysis and interpretation methods

knowledge of methods of resource allocation

state-of-the-art knowledge of research and practice in indexing and abstracting techniques



#### SKIIJS

INDEXING/ABSTRACTING

ENTRY LEVEL

#### Basic Skills

literacy, numeracy, cognitive, analytical, communications, etc.

## Skills Related to Specific Activities

Ability to:

perform <u>each</u> activity use computer and telecommunications equipment/systems with ease apply indexing and abstracting rules consistently perceive the information needs of inhouse staff establish rapport with colleagues communicate well by written, verbal and non-verbal means quickly extract the main points of documents/information and present them concisely make decisions and recommendations based on available information work independently develop criteria for evaluation make effective, timely, and well-informed decisions isolate and define problems and develop the necessary criteria and action for their solution manage time effectively work under pressure of strict deadlines and/or processing quotas

INDEXING/ABSTRACTING

MID LEVEL

## Skills Related to Each Specific Activity

Skills listed above are developed to a greater extent

Ability to:

perceive new information needs where none have been required previously develop operating procedures for manual and/or automated systems communicate with data processing staff and other support/contract staff on a technical level arbitrate and negotiate with contractors work in groups conduct meetings with individuals and groups supervise staff



#### SKILLS

## INDEXING/ABSTRACTING

SENIOR LEVEL

Skills listed above are developed to a greater extent

optimize the use of organizational and section resources

Ability to:

identify the information required to support the organization estimate the cost of processing the necessary information to support the organization anticipate long-range needs of the section and of the organization design systems and procedures to improve operations of the section and of the organization identify potential weaknesses in system security apply methods of measurement and evaluation budget and make projections



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#### MITTLES

## INDEXING/ABSTRACTING

## Dispositional Attitudes

## Mitudes Toward Institutions

Respect for profession Respect for the section Respect for the parent organization

## Attitudes Toward Other People

#### Toward Users

Respect users
Like people in general
Like to help people
Like to meet people
Like to make others feel comfortable
Sensitive to others' needs

## Toward Others in the Workplace

Respect co-workers
Like to work with others/as a team
Like to work on own
Willingness to draw upon and share knowledge and experience with
others
Supportive of co-workers
Enjoy managing/supervising others

#### Personal Oualities

Alertness Assertiveness Compassion/Kindness Confidence Cheerfulness Dependability Determination/Tenacity Diplomacy **Emotional** stability Fairness Flexibility/Versatility Imagination Inquisitiveness Leadership ability Neatness Need for achievement



#### ATTITUDES

# INDEXING/ABSTRACTING

# Personal Ovalities (cont'd)

Objectivity
Open-mindedness
Optimism/Positive attitude
Organization
Patience
Physical endurance
Resourceful
Sensitive/Thoughtful
Sense of humor
Sense of ethics
Tolerance

# Attitudes Related to Job/Work/Organization

## Individual should demonstrate:

Willingness to take/accept responsibility Willingness to take initiative Willingness to respond to authority, apply and follow policy Realization that there is no single "right" way to achieve the goals of the section/organization Desire to learn/try Willingness to fail Willingness to ask questions Desire to work to best of ability Responsiveness to time constraints Accuracy Willingness to get hands dirty Attention to detail Willingness to do clerical tasks Desire to follow-through Service orientation Organizational identity Willingness to promote parent organization and its services View of parent organization as part of a larger information environment Ability to see broad picture Ability to sacrifice short-term gains for long-term goals Political sense Curiosity Variety of interests Desire to grow personally Desire to grow professionally Desire to remain current in specific and general subject field Positive attitude toward job



# INFORMATION ANALYSIS CENTER PROFESSIONAL COMPETENCIES REFERENCE



#### **ACTIVITIES**

REFERENCE

ENTRY LEVEL

## **Custom Searches**

- 1. Log in and review search request forms submitted by in-house staff
- 2. Contact requesters if clarification of information requirements is required
- 3. Develop the strategy for obtaining, evaluating, and packaging the information and data to meet requesters' needs
- 4. Perform online searches of the master information file and/or of commercial database services, using proper thesaurus terms (if applicable) and advanced search techniques to retrieve the requested information
- 5. Review retrieval output for relevancy
- 6. If additional searching is required, determine appropriate source(s) (printed publications, consultation with subject experts, collections of other organizations, etc.)
- 7. Obtain information for requesters from other information services/sources, as appropriate
- 8. Obtain copies (hard or microfiche) of original documents from the organization's collection(s) or from the collections of other organizations
- 9. Supervise preparation of search results for delivery to requesters
- 10. Refer more difficult information requests to higher-level reference staff, as appropriate

#### SDI Searches

- 11. Run stored search profiles/programs at specified intervals
- 12. Supervise preparation of offline printouts for delivery

#### Other

- 13. Answer ready reference questions
- 14. Perform bibliographic verification as required



#### MITVITIES

REFERENCE

ENTRY LEVEL

#### Other (cont'd)

- 15. Assist senier staff with procedures, documentation and communication to support the implementation of special online training classes and system demonstrations for new staff in the section and in the information analysis/research section
- 16. Supervise crarry maintenance of the reference room and rowelving of materials
- 17. Suggest ways in which the online system for the master information file may be made more user-friendly
- 18. Participate in cross-education of staff by filling out and distributing staff alert forms describing new information discovered about the subject fields(s) of interest to the center, the master information file, specific commercial databases, specific types of equipment, telecommunications systems, etc.
- 19. Recommend materials/data for inclusion in the master information file
- 20. Comp = necessary forms to suggest changes/additions to the approved the urus, if applicable; forward forms to senior level section staff
- 21. Recommend new products which could be developed from the master information file
- 22. Use interdisciplinary reference sources/services to identify materials which are in-scope for the center and which should be acquired
- 23. Forward to the selection/acquisitions staff recommendations for materials to be acquired and indexed
- 24. Recommend acquisition of commercial database services to support reference needs
- 25. Recommend acquisition of materials for the reference collection
- 26. Keep abreast of new and changing reference sources, services and tools
- 27. Keep abreast of new and developing technologies applicable to reference searching
- 28. Keep abreast of developments in the subject field(s) of interest to the centur



#### MITTYL TES

REFERENCE MID LEVEL

#### Custom Searches

- 29. Perform more complex searches
- 30. Assist entry level staff with any questions related to search formulation or strategy, including use of the approved thesaurus terms, if applicable
- 31. Provide special reference service for staff of the information analysis/research section: consult reference works, the master information file, and other appropriate sources and prepare written summaries of factual information

#### SDI Searches

- 32. Review subject interest forms submitted by information analysis/ research staff and other organizational staff
- 33. Develop and maintain stored search profiles for SDI searches
- 34. Obtain feedback from requesters on the relevancy of retrievals
- 35. Modify stored search profiles, as required

#### Other

- 36. Prepare information brochures on the search programs and other services provided to organizational staff by the reference section
- 37. Prepare forms to support the custom and SDI search services
- 38. Develop and supervise operation of a tracking system in order to maintain knowledge of the status of al information requests
- 39. Arrange for contract/in-house translation of selected foreign language documents, as requested by information analysis/research staff
- 40. Identify libraries, information centers and other information facilities in the local area which collect/lisseminate information in subject areas which supplement the organization's information collections.
- 41. Contact these facilities to identify the services they would provide to the organization; note any costs associated with services



#### **ACTIVITIES**

REFERENCE

MID LEVEL

## Other (cont'd)

42. Work with mid level staff of the information analysis/research and indexing/abstracting sections to develop and modify, as required, the detailed design and planned operating procedures for the master information file

#### REFERENCE

SENIOR LEVEL

# Search Service Administration

- 43. Supervise the overall planning and operation of the custom and SDI search services
- 44. Assign search requests to the appropriate entry and mid level staff for processing
- 45. Assist mid level staff in formulating the search strategies for particularly difficult topics; seek assistance from senior level indexing staff, if required
- 46. Spot check the search results obtained on custom and SDI searches; recommend additional search strategies as appropriate
- 47. Identify experts that junior staff should contact to supply additional information to support specific information requests

# System Training and Demonstration

- 48. Plan and coordinate all in-house training activities and demonstrations related to the center's master information file and other online database(s)
- 49. Monitor and evaluate all training activities and system demonstrations by direct observation and by review of attendees' written evaluations
- 50. Advise section staff of ways in which they may improve training sessions, training aids, and system demonstrations

#### **Other**

51. Function as a technical expert in all matters relating to reference search services and to preparation of information summaries to support the factual information needs of the information analysis/research section and other organizational staff



#### **ACTIVITIES**

REFERENCE

SENIOR LEVEL

## Other (Jont'd)

- 52. Work with senior staff of the information analysis/research and indexing/abstracting sections to develop the overall design requirements for the master information file
- 53. Work with senior staff of the information analysis/research and indexing/abstracting sections to review and approve/modify the detailed design and planned operating procedures for the master information file as developed by mid level staff of the three sections
- 54. Obtain input from organizational staff regarding changes that they would recommend in the search services and in other services provided by the section
- 55. Together with senior level staff from the information analysis/ research and selection/acquisitions sections, identify organizations/ institutions which produce information in the subject field(s) which the information center supports
- 56. Work with senior level staff from the information analysis/research, selection/acquisitions, and indexing/abstracting sections to formulate draft selection policies for all types of materials to be acquired and processed (fully or selectively) by the center; recommend revisions as required
- 57. Work with senior level selection/acquisitions staff and information analysis/research staff to evaluate the existing data collection(s) and to identify areas of weakness
- 58. If applicable, review suggestions by section staff for changes/additions to the approved thesaurus; forward recommended changes/additions to thesaurus development and control staff
- 59. Review and weed the reference collection on a regular basis
- 60. Compile lists of reference books and standa I works which comprise a basic collection in each major subject area of interest to the center. New editions of these materials are to be acquired when published. Forward the lists to acquisitions for processing
- 61. Meet with managers of libraries, information centers and other information facilities serving the local area in order to make the necessary arrangements to obtain special support, when required, to meet the organization's information needs
- 62. Represent the center at professional meetings and conferences in the subject field(s) of interest to the center



REFERENCE ENTRY LEVEL

# Basic knowledge

knowledge related to liveracy, numeracy, communications, etc.

## Subject knowledge

knowledge of the primary subject fields of interest to the organization (e.g., economics, history, area studies, education, medicine, law, etc.)

knowledge in greater depth in specific subjects (e.g., public affairs, international affairs, military affairs, education of specific groups, etc.)

knowledge of foreign languages

# Information Science Knowledge (Generic)

knowledge of definition, structure, and formats of information

knowledge of alternative approaches to the organization of information

knowledge of alternative approaches to retrieval of information

knowledge of alternative approaches to information management

knowledge of available and emerging information technologies and their applications

knowledge of completed and ongoing research in the field and its applicability to practice

knowledge of career opportunities

knowledge of how to learn on an ongoing basis

#### Knowledge about information work environments

knowledge of the expanding information community, its participants and their interrelationships (social, economic, technical, etc.)

knowledge of the variety of work settings and their organizational structures

knowledge of the functions performed within the various work settings and the services and products offered

knowledge of the users of the services and products, their characteristics and information habits

#### Knowledge of what work is done

knowledge of the reference functions, the range of services and products offered (both actual and potential)

knowledge of the activities that are required to offer the services and produce the products

knowledge of the various resources that are necessary to support the activities

knowledge of reference tools



<sup>32</sup> 45

#### INDIE E

REFERENCE

ENTRY LEVEL

# Rnowledge of what work is do. (cont'd)

knowledge of reference methods and techniques

knowledge of job responsibilities

knowledge of performance expected and how it can be measured

# Knowledge of how to do work

knowledge of how to perform the various activities

knowledge of how to use the reference tools

knowledge of how to apply the reference techniques

# Knowledge of the organization and specific work unit

knowledge of the mission, goals and objectives of the organization

knowledge of the structure of the organization and the role of the section within the organization

knowledge of the various projects and key personnel within the organization

knowledge of the policies and procedures relevant to section operations knowledge of the various resources available within the organization (e.g. personnel, equipment, etc.)

knowledge of the information needs and requirements to support the mission, goals and objectives of the organization

knowledge of the organization's information collection and of related collections

KNOWLEDGE

MID LEVEL

greater depths of knowledge specified above

knowledge of the operations of other sections in the organization and how they relate to reference

knowledge of available vendor-supplied systems, services and products to support reference

knowledge of the contracting process, both in general and within the organization

knowledge of evaluation methods and techniques to evaluate systems, services and products



#### INDILEDGE

#### REFERENCE

SENIOR LEVEL

greater depths of knowledge specified above

knowledge of statistical description, analysis, interpretation and presentation

knowledge of the costs associated with resources (materials, personnel, space, etc.)
knowledge of cost analysis and interpretation methods

knowledge of methods of resource allocation

state-of-the-art knowledge of research and practice in reference techniques



#### **SLIIXS**

REFERENCE

ENTRY LEVEL

## Basic Skills

literacy, numeracy, cognitive, analytical, communications, etc.

# Skills Related to Specific Activities

Ability to:

perform each activity use computer and telecommunications equipment/systems with ease perceive the information needs of in-house staff establish rapport with colleagues and experts communicate well to written, verbal and non-verbal means conduct an interview listen carefully obtain/elicit required information from informal sources collect, analyze and interpret data quickly extract the main points of documents/information and present them concisely make decisions and recommendations based on available information work independently and in groups develop criteria for evaluation make effective, timely, and well-informed decisions isolate and define problems and develop the necessary criteria and action for their solution manage time effectively stay organized while working on several projects at the same time extract information which is not environment-specific to one project and use the information to support related projects train in-house staff in use of online systems supervise staff

REFERENCE

MID LEVEL

# Skills Related to Each Specific Activity

Skills listed above are developed to a greater extent

Ability to:

perceive new information needs where none have been required previously communicate with data processing staff and other support/contract staff on a technical level arbitrate and negotiate with contractors conduct meetings with individuals and groups



#### SKILLS

REFERENCE

SENIOR LEVEL

Skills listed above are developed to a greater extent

Ability to:

identify the information required to support each special project estimate the cost of obtaining the necessary information to support organizational needs effect support from other information services/suppliers anticipate long-range needs of the section and of the organization identify and define gaps in information coverage design systems and procedures to improve operations of the section and of the organization apply methods of measurement and evaluation budget and make projections optimize the use of organizational and section resources



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#### MITTIDES

#### REFERENCE

#### Dispositional Attitudes

## Attitudes Toward Institutions

Respect for profession Respect for the section

Respect for the parent organization

## Attitudes Toward Other People

## Toward Users

Respect users
Like people in general
Like to help people
Like to meet people
Like to make others feel comfortable
Sensitive to others' needs

# Toward Others in the Workplace

Respect co-workers
Like to work with others/as a team
Like to work on own
Willingness to draw upon and share knowledge and experience with
others
Supportive of co-workers
Enjoy managing/supervising others

# Personal Oualities

Alertness
Assertiveness
Compassion/Kindness
Confidence
Cheerfulness
Dependability
Determination/Tenacity
Diplomacy
Emotional stability
Fairness
Flexibility/Versatility
Imagination
Inquisitiveness
Leadership ability



#### ATTITUDES.

#### REFERENCE

#### Personal Qualities (cont'd)

Neatness
Need for achievement
Objectivity
Open-mindedness
Optimism/Positive attitude
Organization
Patience
Physical endurance
Resourceful
Sensitive/Thoughtful
Sense of humor
Sense of ethics
Tolerance

# Attitudes Related to Job/Work/Organization

#### Individual should demonstrate:

Willingness to take/accept responsibility Willingness to take initiative Willingness to respond to authority, apply and follow policy Realization that there is no single "right" way to achieve the goals of the section/organization Desire to learn/try Willingness to fail Willingness to ask questions Desire to work to best of ability Responsiveness to time constraints Accuracy Willingness to get hands dirty Attention to detail Willingness to do clerical tasks Desire to follow-through Service orientation Organizational identity Willingness to promote parent organization and its services View of parent organization as part of a larger information environment Ability to see broad picture Ability to sacrifice short-term gains for long-term goals Political sense Curiosity Variety of interests Desire to grow personally Desire to grow professionally Desire to remain current in specific and general subject field Positive attitude toward job



# INFORMATION ANALYSIS CENTER PROFESSIONAL COMPETENCIES INFORMATION ANALYSIS/RESEARCH



#### ACTIVITA ES

#### INFORMATION ANALYSIS/RESEARCH

ENTRY LEVEL

- 1. Work as part of the appropriate research team to identify the specific data to be collected and analyzed to support each on-going and special information analysis project
- 2. Prepare search request forms to obtain searches of the master information file and other reference sources by reference section staff; suggest appropriate thesaurus terms, if applicable
- 3. Request preparation of summaries of factual information by reference section staff
- 4. Review data (master information file printouts, factual information summaries, bibliographies, documents, etc.) supplied by reference staff for relevancy and adequacy
- 5. Request additional searching and other support from the reference staff, as required
- 6. Review data supplied to the section by other organizational units as part of their regular activities
- 7. Perform searches of secured portions of the master information file to which reference staff may not have access and/or use special search strategies and techniques which may be available to analysts/researchers only
- 8. Contact in-house/contract subject experts in order to obtain additional data or to discuss questionable data
- 9. Analyze, interpret, evaluate and synthesize the data collected
- 10. Draft a comprehensive status/state-of-the-art report on the assigned topic(s) containing facts, thoughts, analyses and recommendations for action
- 11. Prepare a final draft report based on recommendations for modification/expansion of the report by higher level staff

#### Other

- 12. Recommend materials/data for inclusion in the master information file
- 13. Regularly review SDI data retrieved by reference section staff according to one's personal subject interest profile; suggest modifications to the profile as required



#### **MITVITIES**

## INFORMATION ANALYSIS/RESEARCH

ENTRY LEVEL

## Other (cont'd)

- 14. Participate in cross education of appropriate section staff by filling out and distributing staff alert forms describing new information discovered about the subject field(s) of interest to the organization, the master information file, specific types of equipment/systems used in the section, etc.
- 15. Recommend materials/data for inclusion in the master information file
- 16. Complete necessary forms to suggest changes/additions to the approved thesaurus, if applicable; forward forms to senior level section staff
- 17. Recommend new products and special correlations of data which could be developed from the master information file
- 18. Maintain up-to-date knowledge of the capabilities of statistical and other analytical software packages available in-house
- 19. Forward to the selection/acquisitions staff recommendations for acquisition of pertinent materials not owned by the center and identified in the course of research
- 20. Request acquisition of materials to provide an up-to-date desk collection to support one's area of expertise/investigation
- 21. Keep abreast of new and changing sources of information in one's area of expertise/investigation
- 22. Keep abreast of new and developing technologies applicable to information analysis and research
- 23. Keep abreast of developments in subject field(s) of interest to the center and particularly in one's area of expertise/investigation

# INFORMATION ANALYSIS/RESEARCH

MID LEVEL

- 24. Prepare status/state-of-the-art reports on the more difficult topics, as assigned by senior staff
- 25. Edit reports prepared by junior staff and make recommendations for modifications/additions to the reports
- 26. Resolve minor problems related to the preparation of reports; refer major problems to senior staff



#### **MITIVITIES**

## INFORMATION ANALYSIS/RESEARCH

MID LEVEL

27. Develop and supervise operation of a tracking system in order to meintain knowledge of the status of all reports in preparation by section staff; notify senior staff of any problems

### Other

- 28. Work with mid level staff of the reference \_ i indexing/anstracting sections to develop and modify, as required, the detailed decign and planned operating procedures for the master information file
- 29. Work with data processing staff to develop specifications for programs to allow the section to perform searches on restricted data in the master information file and to use unique search strategies and techniques to obtain special correlations of data
- 30. Identity and acquire access to specific statistical and other analytical software packages to support information analysis and research
- 31. Use and/or supervise use of analytical software packages by section staff; resolve problems, as required
- 32. Arrange for and supervise contract access to subject experts to support information analysis and research activities

# INFORMATION ANALYGIS/RESEARCH

SENIOR LEVEL

- 33. At meetings of the respective research teams, outline the basic information analysis and research requirements to support each on-going and special information analysis project
- 34. Assign specific tasks to each member of a research team
- 35. Work individually with members of each research team to resolve major problems related to their portions of the information analysis/research projects
- 36. Select topics for analysis and research in anticipation of future information needs of the paramization
- 37. Identify subject experts who should be solicited as contract support for on-going and special projects



#### **ACTIVITIES**

#### INFORMATION ANALYSIS/RESEARCH

SENIOR LEVEL

38. Notify appropriate organizational units of data which they may be able to supply/obtain in order to better support the information analysis and research activities of the organization

#### Other

- 39. Function as a technical expert in all matters relating to methods and techniques of information analysis and research
- 40. Work with senior staff of the reference and indexing/abstracting sections to develop the overall design requirements for the master information file
- 41. Work with senior staff of the reference and indexing/abstracting sections to review and approve/modify the detailed design and planned operating procedures for the master information file as developed by mid level staff of the three sections
- 42. Review materials/data recommended by section staff for inclusion in the master information file; forward materials/data approved for input to appropriate staff in the indexing/abstracting section
- 43. Obtain input from section and appropriate organizational staff regarding changes that they would recommend in specific information analysis/research products and/or in information analysis/research activities
- 44. Together with senior level staff from the reference and indexing/ abstracting sections, identify organizations/institutions which produce information in the subject field(s) of interest to the organization
- 45. Work with senior level staff from the reference and selection/ acquisitions sections to formulate draft selection policies for all types of materials to be acquired and processed (fully or selectively) by the center; recommend revisions as required
- 46. Work with senior level selection/acquisitions staff and reference staff to evaluate the existing data collection(s) and to identify areas of weakness
- 47. If applicable, review suggestions by section staff for changes/additions to the approved thesaurus; forward recommended changes/additions to thesaurus development and control staff



#### **ACTIVITIES**

## INFORMATION ANALYSIS/RESEARCH

SENIOR LEVEL

# Other (cont'd)

- 48. Review categories of data contained in the master information file and identify parameters for retrieval of records which should be reviewed for possible offline storage/deletion
- 49. Review records retrieved and identify specific action to be taken for each record; forward records to the indexing/abstracting section for file maintenance



#### ENDELEDGE

## INFORMATION ANALYSIS/RESEARCH

ENTRY LEVEL

# Rasic knowledge

knowledge related to literacy, numeracy, communications, etc.

## Subject knowledge

knowledge of the primary subject fields of interest to the organization (e.g., economics, history, area studies, education, medicine, law, etc.)

knowledge in greater depth in specific subjects, (e.g., public affairs, international affairs, military affairs, education of specific groups, etc.)

knowledge of foreign languages

## Information Science Knowledge (Generic)

knowledge of definition, structure, and formats of information

knowledge of alternative approaches to the organization of information

knowledge of alternative approaches to retrieval of information

knowledge of alternative approaches to information management

knowledge of available and emerging information technologies and their applications

knowledge of completed and ongoing research in the field and its applicability to practice

knowledge of career opportunities

knowledge of how to learn on an ongoing basis

#### Knowledge about information work environments

knowledge of the expanding information community, its participants and their interrelationships (social, economic, technical, etc.)

knowledge of the variety of work settings and their organizational structures

knowledge of the functions performed within the various work settings and the services and products offered

knowledge of the users of the services and products, their characteristics and information habits



#### KNOWLEDGE

## INFORMATION ANALYSIS/RESEARCH

ENTRY LEVEL

## Knowledge of what work is done

knowledge of the information analysis and research functions, the range of services and products offered (both actual and potential)

knowledge of the activities that are required to offer the services and produce the products

knowledge of the various resources that are necessary to support the activities

knowledge of research tools

knowledge of information analysis and research methods and techniques

knowledge of job responsibilities

knowledge of performance expect i and how it can be measured

## Knowledge of how to do work

knowledge of how to perform the various activities

knowledge of how to use the research tools

knowledge of how to apply the information analysis and research methods and techniques

# Knowledge of the organization and specific work unit

knowledge of the mission, goals and objectives of the organization knowledge of the structure of the organization and the role of the section within the organization

knowledge of the various projects and key personnel within the organization

knowledge of the policies and procedures relevant to section operations knowledge of the various resources available within the organization (e.g. personnel, equipment, etc.)

knowledge of the information needs and requirements to support the mission, goals and objectives of the organization

knowledge of the organization's information collection

# INFORMATION ANALYSIS/RESEARCH

MID LEVEL

greater depths of knowledge specified above

knowledge of the operations of other sections in the organization and how they relate to information analysis and research

knowledge of available vendor-supplied systems, services and products to support information analysis and research

knowledge of the contracting process, both in general and within the organization

knowledge of evaluation methods and techniques to evaluate systems, services and products



#### DULEGE

# INFORMATION ANALYSIS/RESEARCH

SENIOR LEVEL

greater depths of knowledge specified above

knowledge of formal and informal sources of information on specific topics/areas

knowledge of the relative value/importance of information from various sources

knowledge of the costs associated with resources (materials, personnel, space, etc.)

knowledge of cost analysis and interpretation methods

knowledge of methods of resource allocation

state-of-the-art knowledge of research and practice in information analysis and research techniques



## INFORMATION ANALYSIS/RESEARCH

EVIRY LEVEL

#### Basic Skills

literacy, numeracy, cognitive, analytical, communications, etc.

## Skills Related to Specific Activities

Ability to:

perform each activity use computer and telecommunications equipment/systems with ease use a logical approach to problem analysis and problem solving establish rapport with colleagues and with subject experts communicate well by written, verbal and non-verbal means conduct an interview in person or by phone elicit required data listen carefully think creatively collect, analyze, interpret and synthesize data evaluate importance of data discern questionable data and verify or reject them report facts, thoughts and analyses make decisions and recommendations based on available information work independently and in groups develop criteria for evaluation make effective, timely, and well-informed decisions isolate and define problems and develop the necessary criteria and action for their solution manage time effectively work under pressure of strict deadlines endure the stress of irregular work hours during rush/crisis periods stay organized while working on several projects at the same time extract data and/or techniques which are not environment-specific to one project and use the data and/or techniques to support related projects su ervise staff



#### SIIIX

### INFORMATION ANALYSIS/RESEARCH

MID LEVEL

## Skills Related to Rach Specific Activity

Skills listed above are developed to a greater extent

Ability to:

edit reports
identify and define gaps in data
develop criteria to evaluate conflicting data
resolve conflicting data
communicate with data processing staff and other support/contract staff
on a technical level
arbitrate and negotiate with contractors
conduct meetings with individuals and groups

## INFORMATION ANALYSIS/RESEARCH

SENIOR LEVEL

Skills listed above are developed to a greater extent

Ability to:

identify the basic data and analyses required to properly examine a given topic

assimilate the data gathered and analyzed in order to further direct research efforts

estimate the time requirements and costs of collecting, analyzing, evaluating data and making recommendations

rnticipate long-range information and other needs of the section and of the organization

design systems and procedures to improve operations of the section and of the organization

apray methods of measurement and evaluation

budget and make projections

optimize the use of organizational and section resources



#### **MITITUDES**

# INFORMATION ANALYSIS/RESEARCH

## <u>Dispositional Attitudes</u>

#### Attitudes Toward Institutions

Respect for the section
Respect for the parent organization

## Attitudes Toward Other People

## Toward Users

Respect users
Like people in general
Like to help people
Like to meet people
Like to make others feel comfortable
Sensitive to others' needs

# Toward Others in the Workplace

Respect co-workers
Like to work with others/as a team
Like to work on own
Willingness to draw upon and share knowledge and experience with
others
Supportive of co-workers
Enjoy managing/supervising others

## Personal Oualities

Alertness Assertiveness Compassion/Kindness Confidence Cheerfulness Dependability Determination/Tenacity Diplomacy Emotional stability Fairness Flexibility/Versatility Imagination Inquisitiveness Leadership ability Neatness Need for achievement Objectivity Open-mindedness



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#### ATTITUDES

# INFORMATION ANALYSIS/RESEARCH

## Personal Qualities (cont'd)

Neatness
Need for achievement
Objectivity
Open-mindedness
Optimism/Positive attitude
Organization
Patience
Physical endurance
Resourceful
Sensitive/Thoughtful
Sense of humor
Sense of ethics
Tolerance

## Attitudes Related to Job/Work/Organization

#### Individual should demonstrate:

Willingness to take/accept responsibility Willingness to take initiative Willingness to respond to authority, apply and follow policy Realization that there is no single "right" way to achieve the goals o. the section/organization Desire to learn/try Willingness to fail Willingness to ask questions Desire to work to best of ability Responsiveness to time constraints Accuracy Willingness to get hands dirty Attention to detail Willingness to do clerical tasks Desire to follow-through Service orientation Organizational identity Willingness to promote parent organization and its services View of parent organization as part of a larger information environment Ability to see broad picture Ability to sacrifice short-term gains for long-term goals Political sense Curiosity Variety of interests Desire to grow personally Desire to grow professionally Desire to remain current in specific and general subject field Positive attitude toward job



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# INFORMATION ANALYSIS CENTER PROPESSIONAL COMPETENCIES ORGANIZATION MANAGEMENT SUPPORT



#### **ACTIVITIES**

#### ORGANIZATION/MANAGEMENT SUPPORT

ENTRY LEVEL

- 1. Identify materials to be included in section, master organization and personal files
- 2. Recommend purchase of professional publications/audiovisuals for inclusion in the staff library
- 3. Perform special studies, as assigned
- 4. Conduct business by phone, whenever appropriate
- 5. Write memos, letters, reports, etc. as required
- 6. Maintain a record of work performed and prepare a monthly report of activities
- 7. Prepare manuals of procedures
- 8. Make recommendations to the section manager for improvement in operations of the section
- 9. Attend and participate in staff meetings
- 10. Provide an overview of the operations of the section to visitors, as requested
- 11. Supervise technicians and other paraprofessional staff
- 12. Work to develop "esprit de corps" among staff supervised
- 13. Assist section manager in writing job descriptions for self and for staff supervised
- 14. Assist section manager in developing performance standards for self and for staff supervised
- 15. Assist section manager in the review and performance evaluation of staff supervised
- 16. Assist in the selection of new technicians and paraprofessionals
- 17. Keep abreast of developments and new and developing technologies in the information field and in related fields, as required
- 18. Attend professional meetings and prepare reports for dissemination to staff
- 19. Develop professional contacts both within and outside the parent organization



#### **MITVITIES**

#### ORGANIZATION/MANAGEMENT SUPPORT

MID LEVEL

- 20. Make preliminary selection of forms and/or develop draft record formats for files and operations, as appropriate
- 21. Weed section files, as assigned
- 22. Identify and evaluate commercially available systems/services to support section/organization activities
- 23. Assess performance of existing equipment/systems/services used in the section/organization and investigate capabilities of other equipment/systems/services
- 24. Recommend acquisition of new/additional equipment/systems/services
- 25. Train staff in operation and in-house maintenance of equipment/systems/services
- 26. Supervise in-house operation and maintenance of equipment/systems/ services
- 27. Gather information for maintenance contracts on equipment/systems
- 28. Draft statements of work for contract proposals for services, systems, equipment and/or maintenance
- 29. Evaluate contractors' proposals
- 30. Act as contract monitor/technical representative, as assigned
- 31. Train and supervise entry level staff
- 32. Assist in the selection of new professional staff
- 33. Write articles for professional journals/newsletters when appropriate

#### ORGANIZATION/MANAGEMENT SUPPORT

SENIOR LEVEL

- 34. Review and dispose of materials/information selected for weeding/deletion from section files
- 35. Draft section procedures and policies; draft revisions as required
- 36. Flowchart and document section procedures



## **ACT: VITLES**

## ORGANIZATION/MANAGEMENT SUPPORT

SENIOR LEVEL

- 37. Assist section manager in on-going systems analysis of the section
- 38. Analyze statistics of section operations and prepare draft statistical reports
- 39. Train and supervise mid level staff
- 40. Assist section manager in preparing the annual budget for section operations
- 41. Function as section manager in his/her absence
- 42. Represent the section/organization at meetings, etc., as assigned



#### KNOWLEDGE

#### ORGANIZATION/MANAGEMENT SUPPORT

ZVIRY LEVEL

#### Basic knowledge

knowledge related to literacy, numeracy, communications, etc.

## Subject knowledge

knowledge of the primary subject field of interest to the organization (e.g., economics, history, area studies, education, medicine, law, etc.)

knowledge of foreign languages

# Information Science Knowledge (Generic)

knowledge of definition, structure, and formats of information

knowledge of alternative approaches to the organization of information

knowledge of alternative approaches to retrieval of information

knowledge of alternative approaches to information management

knowledge of available and emerging information technologies and their applications

knowledge of completed and ongoing research in the field and its applicability to practice

knowledge of career opportunities

knowledge of how to learn on an ongoing basis

#### Knowledge about information work environments

knowledge of the expanding information community, its participants and their interrelationships (social, economic, technical, etc.)

knowledge of the wariety of work settings and their organizational structures

knowledge of the functions performed within the various work settings and the services and products offered

knowledge of the users of the services and products, their characteristics and information habits

#### Knowledge of what work is done

knowledge of the functions required to support section/organizational operations and management

knowledge of the activities that are required to offer the services and produce the products

knowledge of the various resources that are necessary to support the activities

knowledge of tools for training, supervising, and evaluating staff



#### **KNOWLEDGE**

## ORGANIZATION/MANAGEMENT SUPPORT

ENTRY LEVEL

## Knowledge of what work is done (cont'd)

knowledge of tools for supporting section/organizational operations and management

knowledge of methods and techniques for supporting section/organization operations and management

knowledge of job responsibilities and working conditions (e.g., range of duties, probable compensation benefits, etc.)

knowledge of performance expected and how it can be measured

## Knowledge of how to do work

knowledge of how to perform the various activities

knowledge of how to use the tools for training, supervising, and evaluating staff

knowledge of how to use the tools for supporting section/organizational operations and management

knowledge of how to apply the methods and techniques for training, supervising, and evaluating staff

knowledge of how to apply the methods and techniques for supporting section/organizational operations and management

knowledge of personnel procedures

knowledge of standards, measures, and methods for evaluating personnel

# Mnowledge of the organization and specific work unit

knowledge of the mission, goals and objectives of the organization knowledge of the structure of the organization and the role of one's section within the organization

knowledge of the various projects and key personnel within the organization

knowledge of the policies and procedures relevant to operations of one's section

knowledge of the various resources available within the organization (e.g. personnel, equipment, etc.)

knowledge of in-house information needs and requirements



#### KNIE EDGE

#### ORGANIZATION/MANAGEMENT SUPPORT

MID LEVEL

greater depths of knowledge specified above

knowledge of the operations of other sections in the organization and how they relate to one's own section

knowledge of available vendor-supplied systems, services and products to support section/organizational operations and supervision/management.

knowledge of the contracting process, both in general and within the organization

knowledge of evaluation methods and techniques to evaluate systems, services and products

knowledge of quality and production control techniques and procedures

#### ORGANIZATION/MANAGEMENT SUPPORT

SENIOR LEVEL

greater depths of knowledge specified above

knowledge of statistical description, analysis, interpretation and presentation

knowledge of the costs associated with resources (materials, personnel, space, etc.)

knowledge of cost analysis and interpretation methods

knowledge of methods of resource allocation

knowledge of alternative management structures and their implications for the operation of the section

state-of-the-art knowledge of research and practice in techniques for training, supervising, and evaluating staff

state-of-the-art knowledge of research and practice in techniques for supporting section/organizational operations and management



ORGANIZATION/MANAGEMENT SUPPORT

ENTRY LEVEL

#### Basic Skills

literacy, numeracy, cognitive, analytical, communications, etc.

# Skills Related to Specific Activities

Ability to:

perform each activity perceive the information needs of section staff and management communicate well by written, verbal and non-verbal means listen carefully think and argue logically think quickly in response to questions project a positive attitude about the activities of the section, organization make decisions and recommendations based on available information work independently and in groups develop criteria for evaluation make effective, timely, and well-informed decisions isolate and define problems and develop the necessary criteria and action for their solution manage time effectively conduct an interview train staff supervise staff establish rapport with colleagues and with staff supervised develop "espirt de corps" among staff supervised conduct meetings with individuals and with groups resolve conflicts among staff

#### ORGANIZATION/MANAGEMENT SUPPORT

MID LEVEL

## Skills Related to Each Specific Activity

Skills listed above are developed to a greater extent

Ability to:

perceive the needs of the organization and not just of the section understand the operation and maintenance requirements of equipment/ systems/services used in the section/organization write and evaluate contract-related documentation communicate with data processing staff and various contractors on a technical level arbitrate and negotiate with contractors



# ORGANIZATION/MANAGEMENT SUPPORT

SENIOR LEVEL

Skills listed above are developed to a greater extent

Ability to:

anticipate long-range needs of the section and of the organization design systems and procedures to improve operations of the section and of the organization apply methods of measurement and evaluation budget and make projections optimize the use of organizational and section resources



#### ATTITUES

## ORGANIZATION/MANAGEMENT SUPPORT

# <u>Dispositional Attitudes</u>

#### Attitudes Toward Institutions

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Respect for the parent organization

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Assertiveness
Compassion/Kindness
Confidence
Theerfulness
Dependability
Decermination/Tenacity
Diplomacy
Emotional stability
Fairness
Flexibility/Versatility
Imagination
Inquisitiveness
Leadership ability



#### **MITTUDES**

#### ORGANIZATION/MANAGEMENT SUPPORT

#### Personal Qualities (cont'd)

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