# **Survey of Information Technology Occupations, 2000: Employer Survey**

# **INITIAL CONTACT**

Hello this is (interviewer) from Statistics Canada. We're conducting a survey on occupations specializing in information technology on behalf of Human Resources Development Canada.

#### NOTE TO PROGRAMMER:

Create a new variable called INITIAL as follows:

If NAME = blank, then INITIAL = "May I please speak with the manager or supervisor of the information technology staff at your location?"

Else INITIAL = "May I please speak with (NAME)?"

## (INITIAL)

# INTRODUCTION

[Hello this is (interviewer) from Statistics Canada. We're conducting a survey on occupations specializing in information technology on behalf of Human Resources Development Canada.]

The use of information technology is growing very rapidly in many industries, therefore businesses and government need accurate information on employment conditions and trends for these occupations. We need your help in providing a perspective on the current situation in your industry.

While your participation is voluntary, your assistance is essential if the results are to be accurate. Your answers will be kept strictly confidential and used only for statistical purposes. My supervisor may listen in to evaluate the survey.

# **SECTION A – Screening Questions**

- IA Throughout this interview we will be asking questions relating to the occupations you employ at this physical location ONLY.
- QA1 Does your company (organization) have more than one physical location?

<1>	Yes	go to QA2
<3>	No	go to QA2
<8>	Refused	go to QA2
<9>	Don't Know	

# NOTE TO PROGRAMMER: Create a new variable called LOCATION as follows: If QA1=3 then LOCATION = blank Else LOCATION = "At this location" and MLOCATION = "at this location" NOTE: Whenever the notation (\_\_\_\_\_) is used, it means that the space should be filled with the variable in the ().

# QA2 How many people does your company (organization) CURRENTLY employ (MLOCATION), excluding contract workers and volunteers?

<0>	None	go to IA4
<1-999995>	Number	
	Refused	
	Don't Know	

## **NOTE TO PROGRAMMER:**

Please put the following definition on the same screen as QA2.

**Contract workers (workers hired on contract):** are either employed by another company or are self-employed and a lump sum of money is paid for their services for a specified project or period of time.

# QA3 How many of these employees work in information technology occupations?

<0>	None	go to IA4
<1-999995>	Number	go to IA4
<999998>	Refused	
<999999>	Don't Know	

IA4 For our purposes, workers hired on contract are either employed by another company or are self-employed and a lump sum of money is paid for their services for a specified project or period of time.

# NOTE TO PROGRAMMER:

Please put the following definition on the same screen as QA4.

**Information technology occupations:** For the purpose of this survey, information technology occupations are those whose primary functions are the management, design, development, analysis, implementation or maintenance of computer and telecommunications hardware, software, networks or information systems.

# QA4 (LOCATION) Does your company (organization) hire workers ON CONTRACT in information technology occupations?

<1>	Yes	go to QA4a
<3>	No	go to SCREEN
<8>	Refused	go to SCREEN
<9>	Don't Know	go to SCREEN

# QA4a (LOCATION) How many information technology workers are CURRENTLY working ON CONTRACT with your company (organization)?

<0>	None	go to SCREEN
<1-999995>	Number	
<999998>		
<999999>	Don't Know	

#### NOTE TO PROGRAMMER:

Create a new variable called EMPTYPE as follows:

If QA3=0 and (QA4=(3 or RF or DK) or QA4a=0), then EMPTYPE=0

If QA3=(1-999995 or RF or DK) and (QA4=(3 or RF or DK) or QA4a=0), then EMPTYPE = 1 (Employees only)

If QA3=0 and (QA4=1 and QA4a not equal 0), then EMPTYPE = 2 (Contract workers only)

If QA3=(1-999995 or RF or DK) and (QA4=1 and QA4a not equal 0), then EMPTYPE = 3 (Employees and contract workers)

## **SCREEN**

**Screen:** The system will now screen out all of the companies who do not currently have information technology professionals.

If EMPTYPE=0, then go to NO EMPLOYEES

If EMPTYPE = 1 or 2 or 3, then go to IB

#### **NOTE TO PROGRAMMER:**

Create new variables called EMPTYPE1 and EMPTYPE2 and EMPTYPE3 as follows:

If EMPTYPE=1, then EMPTYPE1= "the number of people CURRENTLY employed" and EMPTYPE2 = "an employee" and EMPTYPE3 = "employees"

If EMPTYPE=2, then EMPTYPE1= "the number of people CURRENTLY working on contract" and EMPTYPE2 = "a contract worker" and EMPTYPE3= "people working on contract"

If EMPTYPE=3, then EMPTYPE1= "both the number of people CURRENTLY employed, and the number of people working on contract" and EMPTYPE2= "an employee or contract worker" and EMPTYPE3 = "employees or people working on contract"

#### NOTE:

If EMPTYPE = 1, interviewers will not need column 2

If EMPTYPE = 2, interviewers will not need column 1

# **SECTION B – Occupation Selection**

IB We will be asking you to indicate (EMPTYPE1) in specific information technology occupations (MLOCATION). From now on, we will refer to these as IT occupations.

PLEASE NOTE: if (EMPTYPE2) performs more than one job, then the occupation for which they spend the MOST NUMBER of hours should be assigned.

	QB1_ Number of <u>Employees</u>	QB2_ Number of <u>Contract workers</u>
(LOCATION) How many (EMPTYPE3) do you have in the following occupations:		
1 IT Training managers (0115)		
2 Web managers (0611.5)		
3 Computer and information systems managers (0213)		
4 Information systems business analysts and consultants (2171.1)		
5 Systems security analysts (2171.2)		
6 Information systems quality assurance analysts (2171.3)		
7 Systems auditors (2171.4)		<del></del>
8 Database administrators (2172.1)		
9 Data administration analysts (2172.2)		
10 Network systems and data communications specialists (2175)		
11 Software engineers (2173)		
12 Computer engineers, except software (2147)	· · · · · · · · · · · · · · · · · · ·	<del></del>
13 Electrical and electronics engineers, except computer engineers (2133)		
14 Computer programmers (2174.1)		
15 Interactive media developers (2174.2)		
16 Computer and network operators (2281.1)		
17 Web technicians (2281.2)		
18 Technical support analysts (2282)		
19 Systems testing technicians (2283)		
20 Technical writers (5121.2)		
21 Graphic designers and illustrating artists (5241)		

<0> None	go to next occup	pation, then A
<1-999995> Number		
<999998> Refused		
<999999> Don't Know	go to next occu	pation, then A
<b>NOTE TO PROGRAMMER:</b> Only occupations in the firm random selection.	st column (QB1_) should	be flagged for later
NOTE TO PROCE AND TO		
NOTE TO PROGRAMMER:		
Create a new variable called NUMOCCS as follows:	1 NII IMOCCCC-0	
If no occupations (from QB1_1 to QB1_21) were flagged to		
If only 1 occupation (from QB1_1 to QB1_21) was flagged		
If 2 occupations (from QB1_1 to QB1_21) were flagged the		2
If more than 2 occupations (from QB1_1 to QB1_21) were	flagged then NUMOCCS	.=3
A (LOCATION) Does your company (organization information technology occupation?	ation) have (EMPTY	PE3) in any other
<1> Yes go to A_1		
<3> No go to FLOW B <8> Refused go to FLOW B		
<8> Refused go to FLOW B <9> Don't Know go to FLOW B		
, 201 01210 W		
A_1 Please specify the occupation or kind of		
	go to A_2	
A_2 What are the most important activitie	s or duties of this oc	cupation?
12		
3		
4		
5	go to A_3	
	OB1	OP4
	QB1_ Employees	QB2_ Contract workers
A_3 How many of these (EMPTYPE3) do you have at your location?		
<1-999995> Numbergo to B		
<999998> Refusedgo to B		
<999999> Don't Know go to B		

В	(LOCATION) Does your company (organization) have (EMPTYPE3) in any other
	information technology occupation?

 <1> Yes
 go to B\_1

 <3> No
 go to FLOW B

 <8> Refused
 go to FLOW B

 <9> Don't Know
 go to FLOW B

# B 1 Please specify the occupation or kind of work:

\_\_\_\_\_ go to B\_2

# B\_2 What are the most important activities or duties of this occupation?

QB1\_ QB2\_ Employees Contract workers

# **B\_3** How many of these (<u>fill EMPTYPE3</u>) do you have at your location?

<1-999995> Number go to FLOW B <999998> Refused go to FLOW B <999999> Don't Know go to FLOW B

#### **NOTE TO PROGRAMMER:**

Create two new variables called TOTALIT and TOTALCW as follows:

 $TOTALIT = QB1\_1 + QB1\_2 + QB1\_3 + QB1\_4 + QB1\_5 + QB1\_6 + QB1\_7 + QB1\_8 + QB1\_9 + QB1\_10 \\ + QB1\_11 + QB1\_12 + QB1\_13 + QB1\_14 + QB1\_15 + QB1\_16 + QB1\_17 + QB1\_18 + QB1\_19 + QB1\_20 + QB1\_21 + QB1A\_3 + QB1B\_3 \ (not including RF and DK)$ 

 $\begin{aligned} & \text{TOTALCW} = \text{QB2}\_1 + \text{QB2}\_2 + \text{QB2}\_3 + \text{QB2}\_4 + \text{QB2}\_5 + \text{QB2}\_6 + \text{QB2}\_7 + \text{QB2}\_8 + \text{QB2}\_9 + \\ & \text{QB2}\_10 + \text{QB2}\_11 + \text{QB2}\_12 + \text{QB2}\_13 + \text{QB2}\_14 + \text{QB2}\_15 + \text{QB2}\_16 + \text{QB2}\_17 + \text{QB2}\_18 + \text{QB2}\_19 \\ & + \text{QB2}\_20 + \text{QB2}\_21 + \text{QB2}\_3 + \text{QB2B}\_3 \text{ (not including RF and DK)} \end{aligned}$ 

# **FLOW B**

The system will now determine the questionnaire flow based on the responses given so far.

If EMPTYPE=2, then go to QG6

If EMPTYPE=(1 or 3) and NUMOCCS = 0 and (QB1\_A = 1 or QB2\_A=1), then go to QG6

If EMPTYPE=(1 or 3) and NUMOCCS = 0 and QB1 A=3 and TOTALCW=0, then go to NO EMPLOYEES.

Else, go to RANDOMIZE

# **RANDOMIZE**

The system will now take all of the "flagged" occupations from QB1 1 to QB1 21 and:

If NUMOCCS = 1, select the flagged occupations for further questions.

If NUMOCCS = 2, select both flagged occupations for further questions.

If NUMOCCS = 3, the system will randomly select 2 of the flagged occupations for further questions.

NOTE: The system should keep the NOC code, the occupation title and the number of employees reported for each selected occupation. These variables should be named NOC1, NOC2, Occupation1, Occupation2, Number1 and Number2.

For example, from the randomized selection we have:

Occupation1:2171Database AdministratorsNumber of employees: 7Occupation2:2147Computer hardware engineersNumber of employees: 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# **SECTION C – Occupational Profile**

## NOTE TO PROGRAMMER:

The system should be set up with 2 columns – one for each occupation. Each of the questions from \*\*\*\* to \*\*\*\* will be asked about each selected occupation.

NOTE: If NUMOCCS=1, then the interviewers will not need column 2

Where the notation (\_\_\_) exists, the space should be filled with the variable indicated in the ().

#### NOTE TO PROGRAMMER:

Create a new variable called INTRO as follows:

If NUMOCCS = 1, then INTRO= "We will now ask you some questions about the (occupation1) who work at this location."

If NUMOCCS = 2, then INTRO = "We will now ask you some questions about the (occupation1) and (occupation2) who work at this location."

If NUMOCCS = 3, then INTRO = "The computer has randomly selected two of the information technology occupations present in your company (organization). It has selected (occupation1) and (occupation2). We will now ask you some questions about these occupations."

IC (INTRO) The remainder of the interview will cover the hiring, retention and training of employees in this (these) occupation(s).

(Are you still the best person to talk to about this? - If no, go to CONTACT SCREEN)

NOTE TO PROGRAMMER
Create three new variables called SELOCC, SELOCC1 and DESC as follows:
If NUMOCCS = 1, then SELOCC= (occupation1), SELOCC1= "qualified (occupation1) and DESC=
(occupation1)

If NUMOCCS = 2, then SELOCC= "employees in each of these occupations", SELOCC1="qualified employees in each of these occupations" and DESC = "each of these occupations"

QC1	What job titles does your company		Y (Occupation1)	Z (Occupation2)
	(organization) give to (SELOCC) (MLOCATION)?	1		
<8> <9>		go to ICA go to ICA		
ICA	The followi	ng questions are about the full- a	and nart-time nature (	of this (these)
ICA	occupation	(s). For our purposes, full-time eore per week, and part-time emp	employees are defined	as working 30
ICA	occupation hours or m	(s). For our purposes, full-time 6	employees are defined bloyees work less than	as working 30 30 hours per
	occupation hours or m week.	(s). For our purposes, full-time 6	employees are defined	as working 30 30 hours per Z
QC2	occupation hours or m week.	(s). For our purposes, full-time ore per week, and part-time emp  ON) How many (SELOCC) are:	employees are defined bloyees work less than Y (Occupation1)	as working 30 30 hours per Z
	occupation hours or m week.  (LOCATIO	(s). For our purposes, full-time ore per week, and part-time emp	employees are defined bloyees work less than  Y (Occupation 1)	as working 30 30 hours per  Z (Occupation2)
	occupation hours or m week.  (LOCATIO  QC2_1 PE QC2_2 TE QC2_3 PE	(s). For our purposes, full-time of ore per week, and part-time emponents of the second of the secon	employees are defined bloyees work less than  Y (Occupation1)  oyees? oyees?	as working 30 30 hours per Z
	occupation hours or m week.  (LOCATIO  QC2_1 PE QC2_2 TE QC2_3 PE	(s). For our purposes, full-time of ore per week, and part-time emponentime (SELOCC) are:  RMANENT, FULL-TIME employees  MPORARY, FULL-TIME employees	y (Occupation1)  byees? byees? byees?	as working 30 30 hours per  Z (Occupation2)
	occupation hours or m week.  (LOCATIO  QC2_1 PE QC2_2 TE QC2_3 PE	(s). For our purposes, full-time of ore per week, and part-time empty. (SELOCC) are:  RMANENT, FULL-TIME employ MPORARY, FULL-TIME employ RMANENT, PART-TIME employ MPORARY, PART-TIME employ	employees are defined bloyees work less than  Y (Occupation1)  Dyees? Dyees? Dyees? Dyees?	as working 30 30 hours per  Z (Occupation2)
	occupation hours or m week.  (LOCATIO  QC2_1 PE QC2_2 TE QC2_3 PE QC2_4 TE	(s). For our purposes, full-time of ore per week, and part-time emponents of the second of the secon	employees are defined bloyees work less than  Y (Occupation1)  oyees? oyees? oyees? oyees?	as working 30 30 hours per  Z (Occupation2)
	occupation hours or m week.  (LOCATIO  QC2_1 PE: QC2_2 TE QC2_3 PE: QC2_4 TE  <0> <1-999995>	(s). For our purposes, full-time of ore per week, and part-time empty (SELOCC) are:  RMANENT, FULL-TIME employments empty (SELOCC) are:  RMANENT, FULL-TIME employments employed (SELOCC) are:  RMANENT, PART-TIME employments employed (SELOCC) are:  None go to Refused go to	employees are defined bloyees work less than  Y (Occupation1)  Dyees? Dyees? Dyees? ID ID ID ID	as working 30 30 hours per  Z (Occupation2)

# **SECTION D – Hiring and recruitment**

ID The following questions are about hiring and recruitment practices at your location.

			Y (Occupation1)	Z (Occupation2)
	CATION) How many (SEL) been hired within the last 1			
<999998>	None Number  Refused Don't Know	if QD1Y + QI if QD1Y+QD go to FLOW I	D1Z = 1, go to QD1a; 1Z > 1, go to QD1b	
QD1	a Did this new employee require competency or sl training after being hired			
<1><3><8><9>		go to FLOW I go to FLOW I	D1 D1	
QD1	b Did these new employees require competency or sl training after being hired			
<1><3><4><4><8><9>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	go to FLOW I go to FLOW I go to FLOW I	D1 D1 D1	

# FLOW D1

The system will now determine the questionnaire flow based on the responses given so far.

If QA1=3, then go to QD2a

Else if QA1=1 or RF or DK, then go to QD2b

		Y (Occupation1)	(Occupation2)			
QD2a	How are new or vacant positions for ( <u>DESC</u> ) usually staffed					
	(mark only the most frequently used method) (READ THE LIST)					
<1>	From within this location	go to QD3				
<3>	From outside the company	_				
<7>	Not applicable					
<8>	Refused					
<9>	Don't Know					
QD2b	(LOCATION) How are new or vacant					
	positions for ( <u>DESC</u> ) usually staffed					
	(mark only the most frequently used method) (READ THE LIST)					
<1>	From within this location	go to OD3				
<2>	From another location within your company					
<3>	From outside the company	_				
<7>	Not applicable	_				
<8>	Refused					
<9>	Don't Know					
	(organization) use to fill available positions f (READ THE LIST)	or ( <u>DESC )</u> ? (mar	k all that apply)			
	1 Advertising in newspapers					
	2 Unsolicited resumés					
	3 Employee referrals					
	4 Word-of-mouth					
	5 Informal networking					
	6 University or college recruitment					
	7 Job fairs					
	8 Internet recruiting agency					
	9 Your firms' Web site					
	10 Employment centres					
	11 Head-hunter or personnel agency					
	12 Other					
	12_t Please specify this (these) other method(s)					
	13 Not applicable (don't recruit)					
	<1> Yes go to next method, then FLOW D3					
	<3> No go to next method, then FLOW D3					
	<8> Refused go to next					

# FLOW D3

The system will now determine the questionnaire flow based on the responses given so far.

If  $QD3_13 = 1$ , then go to QD5.

If each of (QD3\_1 to QD3\_12) = 3 or RF or DK, then go to QD5.

If any of  $(QD3_1 \text{ to } QD3_12) = 1$ , then go to QD4.

		Y (Occupation1)	Z (Occupation2)
QD4	Of the recruitment methods just listed, which one did you find to be the MOST effective, in terms of finding qualified (SELOCC)? (mark only one) (DO NOT READ LIST)		
<1><2><3><4><6><1><1><2><3><4><1><3><4><1><3><4><5><6><1><3><4><3><4><3><40><11><12><12><13><13><13><13><13><13><13><13><13><13	Advertising in newspapers go to QD5 Unsolicited resumés go to QD5 Employee referrals go to QD5 Word-of-mouth go to QD5 Informal networking go to QD5 University or college recruitment go to QD5 Job fairs go to QD5 Internet recruiting agency go to QD5 Your firms' Web site go to QD5 Employment centres go to QD5 Head-hunter or personnel agency go to QD5 Other go to QD5 Not applicable (don't recruit) go to QD5 Refused go to QD5 Don't Know go to QD5		
QD5	(LOCATION) Are there any new or vacant positions for (DESC) that you are currently trying to fill?		
<1><3><7><8><9>	Yesgo to QD6Nogo to QD7Not applicablego to QD7Refusedgo to QD7Don't Knowgo to QD7		

		Y (Occupation1)	Z (Occupation2)
QD6	In total, how many vacant positions are currently unfilled for (DESC) (MLOCATION)?		
<9999	None go to QD6b 9995> Number go to QD6a 998> Refused go to QD7 999> Don't Know go to QD7		
	QD6a How many of these vacant positions have remained vacant for four month or longer?		
	<0>       None       go to QD6b         <1-999995> Number       go to QD6b         <999998> Refused       go to QD6b         <999999> Don't Know       go to QD6b		
	QD6b In total, how many NEW positions would you create and fill if you could find (SELOCC1)?		
	<0>       None       go to QD7         <1-999995> Number       go to QD7         <999997> Not applicable       go to QD7         <999998> Refused       go to QD7         <999999> Don't know       go to QD7		
QD7	How much difficulty does your company (organization) have in finding (SELOCC1) (MLOCATION)? (mark only one) (READ THE LIST)		
<1> <2> <3> <7> <8> <9>	A lot of difficultygo to QD8Some difficultygo to QD8No difficultygo to QD9Not applicablego to QD9Refusedgo to QD9Don't Knowgo to QD9		

		Y	$\boldsymbol{L}$
		(Occupation1)	(Occupation2)
0.00			
QD8	Which of the following factors make it		
	difficult to fill positions for (DESC )		
	(MLOCATION)? (mark ALL that apply)		
	(READ THE LIST)		
	1 Lack of applicants with relevant		
	1 Lack of applicants with relevant experience		
	2 Lack of applicants with required skills		
	3 Other firms offer better salaries,		
	incentives or benefits		
	4 Other firms offer better opportunities		
	for career development or growth		
	5 Other firms offer more challenging		
	or interesting projects		
	6 Other firms provide the opportunity		
	to use leading-edge technology		
	7 Other firms have a more enticing location	on	
	8 Other		
	<b>8_t</b> Please specify the other factors		
	9 Not applicable		
	<1> Yes go to next meth		
	<3> No go to next meth	od, then QD9	
	<8> Refused go to QD9		
	<9> Don't know go to QD9		
ODA			
QD9	Which of the following financial incentives		
	does your company (organization) provide		
	to (SELOCC) (MLOCATION)?		
	(mark ALL that apply) (READ THE LIST)		
	1 Bonuses		
	2 Profit sharing		
	3 Stock options		
	4 Other financial incentives, except salary		
	4 t Please specify these other financial		
	incentives		
	5 Not applicable		
	11		
	<1> Yes go to QD9a		
	<3> No go to QD10		
	<8> Refused go to QD10		
	<9> Don't Know go to QD10		

	Y (Occupation1)	Z (Occupation2)
QD9a Are the employees who work in non-information technology occupations offered the same financial incentives as?		
<1> Yes (all)       go to QD10         <3> No (none)       go to QD10         <4> Some       go to QD10         <8> Refused       go to QD10         <9> Don't Know       go to QD10		
QD10 Does your company (organization) provide any of the following types of non-financial benefits to (SELOCC) (MLOCATION)?  (mark ALL that apply) (READ THE LIST)		
<ol> <li>Recreation facilities</li> <li>Club memberships</li> <li>Day care facilities</li> <li>Flexible working hours</li> <li>Other non-financial benefits</li> <li>T Please specify these other non-financial benefits</li> <li>Not applicable</li> </ol>		
<1> Yes go to QD10a   <3> None go to IE   <8> Refused go to IE   <9> Don't Know go to IE		
QD10a Are the employees who work in non-information technology occupations offered the same non-financial benefits as?		
<1> Yes (all)       go to IE         <3> No (none)       go to IE         <4> Some       go to IE         <8> Refused       go to IE         <9> Don't Know       go to IE		

# **SECTION E – Employee retention**

IE The following questions are about employee retention (MLOCATION).

					Y (Occupation1)	Z (Occupation2)
QE1		acateo	N), How many l I their position	,		
<0> <1-999 <9999	9995> 98>	Numb Refuse	er ed Know	go to QE2 go to IF		
QE2			OCC) who vac	ated their		
	QE2_2	the c 2 Took outs	company (organ an informatio ide your compa	n technology job any, in CANADA		
	QE2_3	outs	c an informatio ide your compa TED STATES	n technology job any, in the		
	_	field		a different field		
	_	6 Left	ed or left the la for other reaso _6a Please spec other reas	ons cify these		
	<0> <1-999 <9999	98>	None	go to QE3		

		$\mathbf{Y}$	${f Z}$
		(Occupation1)	(Occupation2)
QE3	(LOCATION) Which of the following		
	factors have made it difficult for your		
	company (organization) to retain (SEL)	OCC)?	
	(mark ALL that apply) (READ THE LIST)		
	1 Other firms offer better salaries,		
	incentives or benefits		
	2 Other firms offer better opportuniti	es	
	for career development or growth		
	3 Other firms offer more challenging		
	or interesting projects	- <del></del>	
	4 Other firms provide the opportunity	Y	
	to use leading-edge technology		
	5 Other firms have a more enticing		
	location		
	6 Employees are changing occupation	S	
	7 Employees are returning to school		
	8 Other		
	<b>8_t</b> Please specify these other factor	<u> </u>	
	9 Not applicable		
	<1> Yes go to next :	method, then FLOW E3	
	<3> No go to next	method, then FLOW E3	
	<8> Refused go to next :	method, then FLOW E3	
	<9> Don't know go to next if	method, then FLOW E3	
	<del>_</del>		

# FLOW E3

The system will now determine the questionnaire flow based on the responses given so far.

If  $QE3_9 = 1$ , then go to IF

If each of  $(QE3_1 \text{ to } QE3_8) = (3 \text{ or } 7 \text{ or } RF \text{ or } DK)$ , then go to IF.

If any of  $(QE3_1 \text{ to } QE3_8) = 1$ , then go to QE4.

	Y (Occupation1)	Z (Occupation2)
QE4 Which of the factors just listed causes the MOST difficulty in retaining (SELOCC) (MLOCATION)? (DO NOT READ LIST)		
<1> Other firms offer better salaries, incentives or	benefits	go to IF
<2> Other firms offer better opportunities for care	er development or grov	vth go to IF
<3> Other firms offer more challenging or interest	ing projects	go to IF
<4> Other firms provide the opportunity to use lea	ding-edge technology.	go to IF
<5> Other firms have a more enticing location		
<6> Employees are changing occupations		go to IF
<7> Employees are returning to school		
<8> Other		
<9> Not applicable		
<98>Refused		
<99>Don't know		go to IF
SECTION F – Training and Develop  IF The following questions deal with the nat		ning.
	ure and extent of train ORMAL TRAININGS all types of training alge through a STRUC	. For our intended to CTURED
IF The following questions deal with the nat  IFA First, we will ask some questions about Formula purposes, FORMAL TRAINING included develop your employees' skills or knowledge.	ure and extent of train ORMAL TRAINING all types of training alge through a STRUC or outside your location	. For our intended to CTURED on.
IF The following questions deal with the nat  IFA First, we will ask some questions about Formula purposes, FORMAL TRAINING included develop your employees' skills or knowledge.	ure and extent of train ORMAL TRAINING as all types of training alge through a STRUC or outside your location	. For our intended to CTURED on.
IF The following questions deal with the nat  IFA First, we will ask some questions about Formula purposes, FORMAL TRAINING included develop your employees' skills or knowledge.	ure and extent of train ORMAL TRAINING all types of training alge through a STRUC or outside your location	. For our intended to CTURED on.
IF The following questions deal with the nat  IFA First, we will ask some questions about Formula purposes, FORMAL TRAINING included develop your employees' skills or knowledge.	ure and extent of train ORMAL TRAINING Is all types of training Ige through a STRUC Or outside your location Y (Occupation1)	. For our intended to CTURED on.
IF The following questions deal with the nat  IFA First, we will ask some questions about Formula purposes, FORMAL TRAINING includes develop your employees' skills or knowled FORMAT, whether it takes place inside of the companies of the compani	ure and extent of train ORMAL TRAINING Is all types of training Ige through a STRUC Or outside your location Y (Occupation1)	. For our intended to CTURED on.
IF The following questions deal with the nat  IFA First, we will ask some questions about Fourposes, FORMAL TRAINING include develop your employees' skills or knowled FORMAT, whether it takes place inside of the companies of th	ure and extent of train ORMAL TRAINING Is all types of training Ige through a STRUC Or outside your location Y (Occupation1)	. For our intended to CTURED on.
IF The following questions deal with the nat  IFA First, we will ask some questions about Fourposes, FORMAL TRAINING include develop your employees' skills or knowled FORMAT, whether it takes place inside of the companies of th	ure and extent of train ORMAL TRAINING Is all types of training Ige through a STRUC Or outside your location Y (Occupation1)	. For our intended to CTURED on.

				Y	${f Z}$
				(Occupation1)	(Occupation2)
QF2	Whiel	h of the following	types of formal tra	aining	
<b>V1</b>		_	anization) pay for	_	
		1	? (mark ALL that a		
	_	D THE LIST)	· (man v 1122 man a	PP*9)	
	1 M	anagement trainii	ng		
		stems software tr	_		
	3 A <sub>1</sub>	pplications softwa	re training		
	4 C	omputer program	ming training		
	5 Co	omputer hardwar	e training		
	6 C	ommunication or i	interpersonal		
	sk	ills training			
	7 Ot	ther training			
	7_	t Please specify the	his other training		-
	8 No	ot applicable			
	<1> '	Yes	go to next type,	then OF3	
			go to next type,	=	
			go to next type,		
			go to next type,	=	
QF3	many was p	(SELOCC) receiv	he last 12 months, yed formal training led by your compa	g that	
<0>		None	go to IFR		
-	9995>		_		
<9999		Refused			
<9999		Don't Know			
-222	, ),	Don't Know	50 to Q1 1		
QF4	compa	verage, how many any-sponsored for employee in this (twe, within the last	mal training did chese) occupation(s	s)	
<0>		None	go to IFB		
<1-36	5>	Number	_		
<998>	>	Refused			
<999>	>	Don't Know	go to IFB		

IFB We will now ask some questions about INFORMAL training. For our purposes, employees who participate in ON-THE-JOB or INFORMAL TRAINING acquire various skills or knowledge as part of doing the job.

				Y (Occupation1)	Z ( <u>Occupation2)</u>
QF5	the loc kn	ithin the last 12 months, or (SELOCC) working at the cation acquire new IT ski owledge through ON-TH INFORMAL training?	this lls or		
<1><3><8><9>	No Re	es ) fused on't Know	go to IG go to IG		
QF6	of	or <u>(SELOCC),</u> on average total IT training is on-tho aining?			
<0>		None	go to IG		
<1-10	0>	Number			
<998>	>	Refused	go to IG		
<999>	>	Don't Know	go to IG		
****	***	********	******	*******	********

# SECTION G – Employee survey participation and data-sharing

IG	Over the next few months, we will be conducting a surve information technology occupations on behalf of Human Development Canada. We are counting on the employer assist us with this survey.	Resources
QG1	Would you be willing to provide a list of the names and leading to p	_
<1>	Yes	go to QG3
<3>	No	go to QG2
<8>	Refused	go to QG2
<9>	Don't Know	go to QG2
QG2	Would you be willing to distribute survey material to so these occupations?	me of your employees in
<1>	Yes	go to OG3
<3>	No	_
<8>	Refused	
<9>	Don't Know	
	survey of employees.  (Programmer: Please fill with contact information from file	e)
<1>	Name	
<2>	Position	
<3>	Address	
<4>	City	
<5>	Province	
<6>	Postal code	
<7>	Telephone Number	
<8>	Extension	go to QG4
QG4	Would you prefer to be contacted by post or e-mail?	
<1>	Post	
<2>	E-Mail	
<3>	No preference	
<8>	Refused	
<9>	Don't know	go to QG5
QG4a	What is your e-mail address?	go to QG5

# QG5 Do your employees in information technology occupations have access to the Internet at their work location?

<1>	Yes (all)	go to QG6
	No (none)	
<4>	Some	go to QG6
<8>	Refused	go to QG6
	Don't Know	

QG6 Statistics Canada has entered into a data-sharing agreement under Section 12 of the Statistics Act with Human Resources Development Canada. All your information will be kept strictly confidential by Human Resources Development Canada and used only for statistical purposes. Do you agree to share the information you've provided?

<1>	Yes	go to QG7
<3>	No	go to QG7
<8>	No Refused	go to QG7
<0>	Don't know	go to OG7
\J/	Don't know	50 to QG7
QG7	The interview is now finished. Do you	have any comments about this survey?
QG7		have any comments about this survey?

## **NO EMPLOYEES**

Since your company does not have any employees or contract workers in information technology occupations, we have no further questions. (go to END)

**QG7 t Comments:** go to END

## **END**

Thank you for your time.

## **REFUSAL SCREEN**

The results of the survey will provide both businesses and government with much needed information on this important group of occupations. The results will also help shape policy. Your participation is essential in order to have reliable information.

## Stress:

- Importance of the respondent's information
- That the respondent's data will represent the responses of many other businesses
- Need for co-operation in order to produce reliable information
- Importance of these occupations and their industry
- Address confidentiality issues
- Users and uses: The results will provide both businesses and government with much needed information on this important group of occupations.