

Saskatchewan Urban Training Needs Assessment Report 2003

Prepared by: SIAST Planning, Research and Development Division

April 2003 #03-03

Saskatchewan Institute of Applied Science and Technology

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Saskatchewan Institute of Applied Science and Technology (SIAST)
Planning, Research and Development Division

Reproduction of this report or parts thereof is permitted provided appropriate acknowledgments are given.

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Table of Contents

| | | | Page |
|------------|--------|---|-------|
| 1.0 | IN | TRODUCTION | 1 |
| | | | 1 |
| 1.1 1.2 | | CKGROUNDRPOSE AND OBJECTIVES OF THE REPORT | |
| 1.3 | | THODOLOGY | |
| 1. | J IVIL | THODOLOG1 | 1 |
| 2.0 | DE | EMOGRAPHIC AND ECONOMIC INFORMATION | 3 |
| 2. | 1 Sas | SKATCHEWAN DEMOGRAPHICS | 3 |
| | 2.1.1 | General Population Trends | 3 |
| | 2.1.2 | An Aging Population | 4 |
| | 2.1.3 | Rural to Urban Shift in Population | 7 |
| | 2.1.4 | Inter-provincial Migration | 8 |
| | 2.1.5 | Immigration to Canada | 8 |
| | 2.1.6 | Aboriginal Population | 9 |
| 2 : | 2 FD | JCATION LEVELS | 12 |
| | 2.2.1 | Kindergarten to Grade 12 Population | 12 |
| | 2.2.2 | Post-Secondary Education Completion Rates – Canada and Saskatchewan | 14 |
| | 2.2.3 | Education Indicators for Aboriginal Population | 17 |
| | 2.2.4 | Post-Secondary Issues | 17 |
| | 2.2.5 | Intention to Pursue Post-Secondary Education | 18 |
| | 2.2.6 | Why Youth are not Attending Post Secondary Education | 19 |
| 2 ' | 3 ΙΔΕ | BOUR FORCE | 21 |
| | 2.3.1 | Canadian Labour Force Characteristics | 21 |
| | 2.3.2 | Saskatchewan Labour Force Characteristics | 22 |
| | 2.3.3 | Employment by Industry | 25 |
| | 2.3.4 | Shortage of Skilled Workforce | 27 |
| 2.4 | 4 FC | ONOMIC HIGHLIGHTS | 28 |
| | 2.4.1 | Canadian Outlook | 28 |
| | 2.4.2 | Saskatchewan Outlook | 28 |
| | 2.4.3 | Small Business | 29 |
| | 2.4.4 | Employment Demand Growth | 29 |
| | 2.4.5 | Provincial Highlights and Emerging Trends | 30 |
| 3.0 | QI | JMMARIES OF TRAINING NEEDS ASSESSMENT INDU | ISTRV |
| J.U | | ONSULTATIONS | _ |
| 3. | | RODUCTION | |
| | | MMARY OF THE FINDINGS | |

| 1.0 SI | JMMARIES OF RELEVANT STUDIES AND REPORTS | 51 |
|--------|---|----|
| 4.1 Ov | ERVIEW OF SECTOR PARTNERSHIP REPORTS | 51 |
| 4.1.1 | Saskatchewan Mental Health | 52 |
| 4.1.2 | Saskatchewan Beef Cattle Feedlot | 52 |
| 4.1.3 | Saskatchewan Plastics | 53 |
| 4.1.4 | Home Care/Special Care Aides | 53 |
| 4.1.5 | Primary Agriculture Production | 54 |
| 4.1.6 | Northern Saskatchewan Environmental Industry | 54 |
| 4.1.7 | Music and Sound Recording Industry | 55 |
| 4.1.8 | Building Capacity in Occupational Health and Safety | 56 |
| 4.2 Su | MMARIES OF SIAST NEEDS ASSESSMENT STUDIES | 57 |
| 4.2.1 | Health Sciences Preparatory Program | 57 |
| 4.2.2 | Dental Assistant | 57 |
| 4.2.3 | Dental Hygiene | 58 |
| 4.3 Su | MMARIES OF OTHER REPORTS | 58 |
| 4.3.1 | Saskatchewan Immigrant and Refugee Settlement Needs and Retention Study | 58 |
| 4.3.2 | Saskatchewan Auto Dealers' Association | 59 |
| 4.3.3 | Saskatchewan Road Building and Heavy Construction Association | 59 |
| 4.3.4 | Independent Business Study | 60 |

Appendices

Appendix A - Invitation Letter
Appendix B - Invited Participants
Appendix C - Training Needs Questionnaire
Appendix D - List of References

1.0 Introduction

1.1 Background

As part of an annual program planning process, SIAST conducts a number of formal and informal consultations with various SIAST stakeholders (employers, industry organizations and community representatives). The planning process is to identify and research future program training needs in the province of Saskatchewan. In addition to consultations, a number of publications that report on labour market information, general trends and statistics, and specific industry reports are also examined. Following the compilation of all research conducted this spring, the Saskatchewan Urban Training Needs Assessment Report (SUTNA) 2003 has been produced.

1.2 Purpose and objectives of the report

The purpose of the SUTNA 2003 report is three-fold. One is to gather information identifying training needs specific to each of the four SIAST campus cities (Saskatoon, Regina, Moose Jaw and Prince Albert). The second is to gather information relevant to province-wide training needs. The third is to inform industry representative of the status of needs that were identified in past consultations. The identified training needs assist SIAST in determining future development of new programs or updating of existing programs.

One objective in undertaking the needs assessment consultation process is to work with organizations such as Canada-Saskatchewan Career and Employment Services (CSCES), and training providers, such as SIIT, DTI and the regional colleges, in order to identify needs, share common data and coordinate the information gathering process. Encouraged by Saskatchewan Learning, the process facilitates integrated planning and avoids duplication of services.

The data from the annual SUTNA report forms the basis of a SIAST provincial training plan, and is used for strategic planning at SIAST.

1.3 Methodology

The SUTNA 2003 report is divided into three categories and outlined in sections two to four of the report.

Section 2.0 is a demographic and economic scan that reports data gleaned from a variety of sources, such as Statistics Canada. The results of Census 2001 have provided SIAST with updated population, employment and education statistics. The sources of research are referenced throughout the SUTNA 2003 report as well as in the list of references provided at the end of the report, as Appendix D.

Section 2.0 of the report provides relevant demographic swings, labour market information, economic activities and future trends, and includes an international, a national and a provincial perspective.

Section 3.0 reports the primary research obtained from the stakeholder consultations that were held in each SIAST campus city. The letter of invitation and guest list to the consultations are included as Appendices A & B.

SIAST is aware that the dates for the stakeholder consultations may not suit all invitees so this year introduced a questionnaire that non-attendees at the consultations could complete and send in. The questionnaires were compiled and the information added into this section of the report. A copy of the questionnaire is included as Appendix C.

As well as the above method of providing additional information, some organizations gave input by email or letter. The input was also added to this section of the report.

Section 4.0 records the summaries of the sector partnership studies that have been completed within the past year. There are currently 46 sector partnerships with 31 industries in Saskatchewan. The sector partnership program in an initiative of Saskatchewan Learning and is a plan to develop human resource strategies to address industry skill shortages in the province. This is an ongoing process as partnerships continue to be established.

As well, the section includes specific needs assessment reports completed at SIAST and other published reports that identify future training trends. The other reports are published by labour market organizations, such as economic development associations.

The purpose of section 4.0 is to summarize identified training needs, assessments and reports that might be relevant to SIAST.

Many training needs were identified during the consultation process, the questionnaire submissions and the reviewing of many reports. SIAST is aware that it cannot meet all identified training needs. Some are not financially feasible. The Institute is proactive in developing partnerships and in brokering programs from other training institutions, delivering the curriculum and offering the credential upon completion.

2.0 Demographic and Economic Information

2.1 Saskatchewan Demographics

2.1.1 General Population Trends

In Census year 2001, Saskatchewan's population stood at 978,933, which is a decline of 11,304 people since the 1996 Census. Of the four major cities, only Saskatoon had experienced an increase in population over the same census period.

Table 1: Demographics of Saskatchewan

| Characteristics | Saska | tchewan | Saska | toon | Regin | а | Moos | e Jaw | Prince Albert | |
|--|--------|---------|--------|------|--------|------|-------|-------|------------------|--------|
| Population in 2001 ¹ | 978,93 | 33 | 196,8 | 11 | 178,22 | 25 | 32,13 | 1 | 34,291 | |
| Population in 1996 ² | 990,23 | 37 | 193,68 | 53 | 180,40 | 04 | 32,97 | 3 | 34,77 | 7 |
| Age Groups as % of | | | | | | | | | | |
| the Saskatchewan | | | | | | | | | | |
| population 2001 ³ | | | | | | | | | | |
| 0-14 | 20.5% | | 20.0% | ı | 19.2% |) | 18.2% | 6 | 24.3% | , D |
| 15-29 | 21.6% | | 22.7% | | 22.4% |) | 21.0% | 6 | 21.8% | , D |
| 30-64 | 43.3% | | 45.2% | | 45.8% |) | 42.6% | 6 | 42.2% | , D |
| 65+ | 14.4% | | 11.9% | | 12.5% |) | 17.9% | 6 | 11.6% | , D |
| 15-64 | 65.0% | | 68.0% | | 68.2% | | 63.7% | | 64.0% | |
| Age Groups by | M | F | M | F | M | F | M | F | M | F |
| gender 2001 ³ (%) | | | | | | | | | | |
| 0-14 | 10.4 | 10.0 | 10.2 | 9.8 | 9.8 | 9.4 | 9.4 | 8.9 | 12.5 | 11.7 |
| 15-29 | 11.1 | 10.5 | 11.3 | 11.4 | 11.3 | 11.0 | 10.6 | 10.4 | 10.7 | 11.1 |
| 30-64 | 21.8 | 21.5 | 22.5 | 22.7 | 22.7 | 23.1 | 21.0 | 21.5 | 20.7 | 21.4 |
| 65+ | 6.29 | 8.18 | 4.8 | 7.1 | 5.1 | 7.4 | 7.2 | 10.7 | 4.7 | 6.9 |
| 15-64 | 32.9 | 32.0 | 33.8 | 34.1 | 34.0 | 34.2 | 31.7 | 31.9 | 31.5 | 32.5 |
| Aboriginal Population 2001 ¹ | 130,18 | 35 | 20,275 | 5 | 15,68 | 5 | 1,405 | ı | 11,64 | 0 |
| Visible Minority | 27,580 |) | 12,410 |) | 9,880 | | n/a | | n/a | |
| Population 2001 ¹ | 27,000 | • | 12,410 | | 3,300 | | 1,,,, | | 1,,, | |
| Immigrant Population 2001 | 47,825 | | 16,86 | 5 | 14,01 | 5 | 1,510 | | 1,440 | |
| Social Assistance Recipients, 2002 ⁴ | 12,245 | 5 | 3,129 | | 2,785 | | 431 | | 740 | |

⁽Sources:

Saskatchewan accounted for 3.3 percent of Canada's population in 2001, which is a decline from 1996. Table 2 gives the provincial population totals for Census years 1996 and 2001. When comparing populations, it is interesting to note that 6 of the 11 provinces and territories had experienced some form of population decline over the 1996-2001 period.

¹Statistics Canada 2001 Census

²Statistics Canada 1996 Census

³Government of Saskatchewan, Saskatchewan Hospital Services Plan (SHSP), June 2002

⁴Saskatchewan Social Services, Social Services Fully Employable Social Assistance Recipients, December 2002)

Table 2: Demographics of Canada's Provinces

(Source:

| NAME | 2001 | % of Total | 1996 | % of Total |
|-------------------------|------------|---------------|------------|---------------|
| Newfoundland & Labrador | 512,930 | 1.7% | 551,792 | 1.9% |
| Prince Edward Island | 135,294 | 0.5% | 134,557 | 0.5% |
| Nova Scotia | 908,007 | 3.0% | 909,282 | 3.2% |
| New Brunswick | 729,498 | 2.4% | 738,133 | 2.6% |
| Quebec | 7,237,479 | 24.1% | 7,138,795 | 24.7% |
| Ontario | 11,410,046 | 38.0% | 10,753,573 | 37.3% |
| Manitoba | 1,119,583 | 3.7% | 1,113,898 | 3.9% |
| Saskatchewan | 978,933 | 3.3% | 990,237 | 3.4% |
| Alberta | 2,974,807 | 9.9% | 2,696,826 | 9.3% |
| British Columbia | 3,907,738 | 13.0% | 3,724,500 | 12.9% |
| Yukon Territory | 28,674 | 0.1% | 30,766 | 0.1% |
| Northwest Territories | 37,360 | 0.1% | 39,672 | 0.1% |
| Nunavut | 26,745 | 0.1% | 24,730 | 0.1% |
| CANADA | 30,007,094 | 100.0% | 28,846,761 | 100.0% |

Statistics Canada. 2001 Census: population and dwelling counts, for Canada, provinces and territories, 2001 and 1996 censuses

The provincial Census data also shows several other interesting trends which include the following: there continues to be a shift in the demographics of the province with the non-Aboriginal population of Saskatchewan aging; residents moving away from the rural centers to the larger urban centers (thus leading to rural depopulation); net-migration has been on the downward trend resulting in out-migration being greater than in-migration; and the Aboriginal population is young in age and rising. What these trends suggest is that, as the non-Aboriginal population ages, a greater number will be retiring in the next 10 to 15 years and will cause a shortage of workers in what is projected to be a tight labour market. Demographers are hoping that the young, Aboriginal working age population will be able to alleviate some of the pressures that are anticipated in Saskatchewan's future labour market.

2.1.2 An Aging Population

Table 3 presents the ages of the population for Saskatchewan and Canada, as a whole. As evident, Saskatchewan has a greater proportion of the population in the 0-14, 15-24 and 65 and older population than the rest of Canada. The greater abundance of Saskatchewanians aged 0-14 and 15-24 should bode well for the province in light of pending labour shortages in the near future.

Table 3: Ages of Population, Canada and Saskatchewan, 2001

| Population Data | | | 2001 | 1996 | % change |
|--|------------|--------------------------|--------------------|-----------------------------|------------------------------------|
| Population in Cana | ada | | 30,007,094 | 28,846,761 | 4.0 |
| Population in Sask | catchewan | | 978,933 | 990,237 | -1.1 |
| 15 years of age and older Population in Canada aged 15 years | | | 2001 24,281,560 | % of total population 80.9% | 1996 22,945,480 |
| and older Population in Saskatchewan aged 15 years and older | | 5 | 771,705 | 78.8% | 761,665 |
| Ages of Population 2001 | In Canada | % of Canadian population | | In Saskatchewan | % of Saskatchewan population |
| 0-14 years | 5,725,535 | 19. | 1% | 207,230 | 21.2% |
| 15-24 | 4,009,140 | 13.4 | 4% | 144,240 | 14.7% |
| 25-34 | 3,994,940 | 13. | 3% | 115,125 | 11.8% |
| 35-44 | 5,101,625 | 17. | 0% | 149,330 | 15.3% |
| 45-54 | 4,419,290 | 14.7% | | 130,885 | 13.4% |
| 55-64 | 2,868,015 | 9.6% | | 84,560 | 8.6% |
| 65 and older | 3,888,550 | 13. | 0% | 147,565 | 15.1% |
| Total - all ages | 30,007,095 | 100 |)% | 978,935 | 100% |

(Source: Statistics Canada. 2001 Census data, adapted)

Figure 1 gives the change in the composition of Saskatchewan's population over the 1996-2001 census period. As Figure 1 shows, the proportion of the population between 40 and 59 years of age had increased while the younger population in the five year age groups between 0-14 had decreased over the 1996-2001 period.

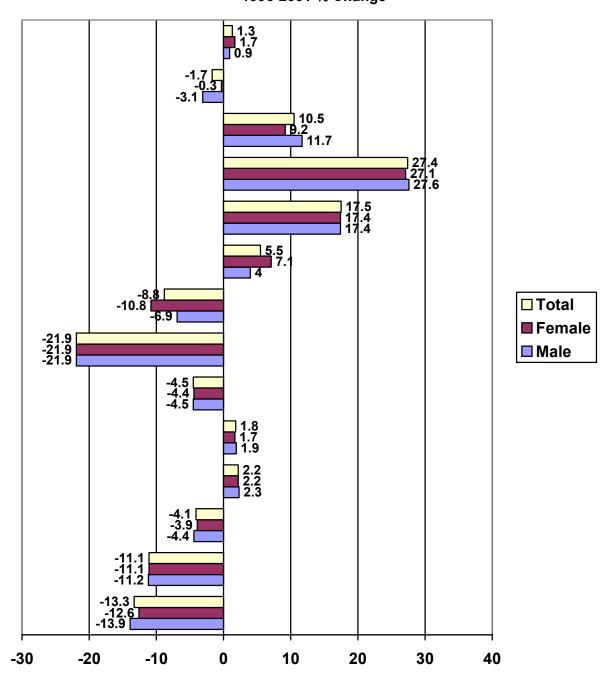
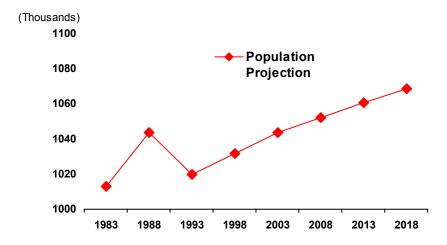


Figure 1: Saskatchewan Census Population by 5 Year Age Groups 1996-2001 % Change

(Source: Statistics Canada. 2001 Census data, prepared by the Saskatchewan Bureau of Statistics)

The population of Saskatchewan, as projected by Saskatchewan Learning, is expected to only grow moderately over the next 15 to 20 years, as shown in Figure 2. Forecasts project an average annual increase of about 0.2%, and are based on the existing migration patterns and constant fertility and mortality rates.

Figure 2: Saskatchewan Population Projection 1983-2018 Migration Pattern Assumption

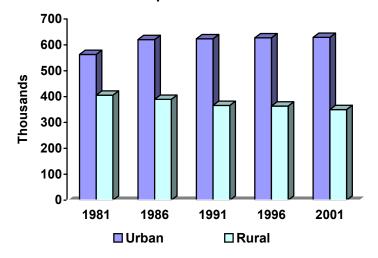


(Source: Saskatchewan Learning and Saskatchewan Economic and Co-operative Development. An Overview of the Saskatchewan Economy and Labour Market. May 2001)

2.1.3 Rural to Urban Shift in Population

The province's population is becoming increasingly urban as people move to larger centers such as Saskatoon and Regina. Figure 3 shows the shift in the twenty years for the period 1981 to 2001.

Figure 3: Saskatchewan Population – Urban and Rural 1981-2001



[Excludes Unenumerated Indian Reserves] (Source: Statistics Canada. Census of Canada)

Statistics Canada reports that in the 1986-1991 five year span, the population in rural Saskatchewan decreased by 10%, or by 14% since 1981. The population in rural Saskatchewan did remain fairly static between the years 1991 to 1996 (Figure 3). From 1996 to 2001, the rural population declined by nearly 4 percent to 349,897 people.

2.1.4 Inter-provincial Migration

The Saskatchewan Bureau of Statistics reports the inter-provincial migration rates from 1992-2002 via data obtained from Statistics Canada. From the trend, as identified in Table 4 below, Saskatchewan's population has been experiencing a decline in net-migration over this time period. Given these findings, and given the recent downturn in the province's economy (in part due to the sluggish agricultural farm sector), one would suspect that the existing trend is likely to not reverse itself (at least in the short-term).

Table 4: Inter-provincial Migration Figures 1992-2002

| Year | Inte | Inter-provincial Migration | | | | | | |
|------|--------------|----------------------------|---------------|--|--|--|--|--|
| | In-Migration | Out-Migration | Net Migration | | | | | |
| 1992 | 17,796 | 26,277 | -8.481 | | | | | |
| 1993 | 17,258 | 23,606 | -6,348 | | | | | |
| 1994 | 16,828 | 22,259 | -5,431 | | | | | |
| 1995 | 16,814 | 20,466 | -3,652 | | | | | |
| 1996 | 17,411 | 19,572 | -2,161 | | | | | |
| 1997 | 16,771 | 19,565 | -2,794 | | | | | |
| 1998 | 18,697 | 20,637 | -1,940 | | | | | |
| 1999 | 15,200 | 19,533 | -4,333 | | | | | |
| 2000 | 14,556 | 22,503 | -7,947 | | | | | |
| 2001 | 12,985 | 21,395 | -8,410 | | | | | |
| 2002 | 18,968 | 27,603 | -8,635 | | | | | |

(Source: Statistics Canada. 2001 Census data, prepared by the Saskatchewan Bureau of Statistics)

2.1.5 Immigration to Canada

Statistics Canada reports that Canada grew by 1,830,680 over the 1991-2001 period as a result of immigration. Of this total, 11,365 immigrated to Saskatchewan with the majority locating in Saskatoon and Regina (see Table 5). Cities in Canada that attracted the largest number of immigrants included Montreal, Toronto and Vancouver.

Table 5: Immigrant Status by Period of Immigration, 2001

| | | Canadian- | Foreign- | | Immigrated between |
|---------------|-------------------------------|------------------------------|---------------------------------|------------------------|--------------------|
| Name | Total population ¹ | born population ² | born population ³ | Immigrated before 1991 | 1991 and 2001⁴ |
| Canada | 29,639,030 | 23,991,905 | 5,448,480 | 3,617,800 | 1,830,680 |
| Saskatchewan | 963,150 | 912,220 | 47,825 | 36,460 | 11,365 |
| Moose Jaw | 32,510 | 30,915 | 1,510 | 1,225 | 285 |
| Prince Albert | 39,890 | 38,340 | 1,440 | 1,165 | 275 |
| Regina | 190,020 | 175,135 | 14,015 | 10,755 | 3,260 |
| Saskatoon | 222,630 | 204,395 | 16,865 | 11,755 | 5,115 |
| Calgary | 943,310 | 738,310 | 197,410 | 128,550 | 68,860 |
| Edmonton | 927,020 | 755,965 | 165,235 | 120,320 | 44,915 |
| Montreal | 3,380,645 | 2,724,200 | 621,890 | 406,770 | 215,120 |
| Toronto | 4,647,955 | 2,556,860 | 2,032,960 | 1,240,930 | 792,035 |
| Vancouver | 1,967,475 | 1,199,760 | 738,550 | 413,740 | 324,815 |
| Winnipeg | 661,725 | 548,975 | 109,390 | 82,985 | 26,405 |

¹ Includes non-permanent residents (not shown as a separate column in this table), as well as the sum of the counts for the Canadian-born and foreign-born population.

(Source: Statistics Canada. 2001 Census: Immigrant Status by Period of Immigration, 2001 Counts, for Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations - 20% Sample Data)

2.1.6 Aboriginal Population

Statistics Canada reports that Saskatchewan's Aboriginal population has grown since 1996. Table 6 gives Saskatchewan's and Canada's Aboriginal population by age group for the Census year 2001 while Table 7 provides the percent of the Aboriginal population in each age group for 2001. As Table 6 shows, Saskatchewan's Aboriginal population increased by 1.9 percent over the 1996-2001 period. However, what is interesting is the younger Aboriginal population which comprises a significant proportion of the overall Aboriginal population (Table 7). The 0-14 age group, for example, represents 24.9 percent of Saskatchewan's population in that age category, while the 15-24 and 25-34 age groups account for 16.5 and 16.4 percent, respectively.

The proportions are similar for Canada's Aboriginal population, which represents 3.3 percent of the total Canadian population. What this implies is that Saskatchewan will have a growing Aboriginal population for some time which will require education and jobs in a tightening Saskatchewan labour market.

² Includes persons born in Canada as well as a small number of persons born outside Canada who are Canadian citizens by birth.

³ This population is also referred to as the "immigrant population", which is defined as persons who are, or have ever been, landed immigrants in Canada.

⁴ Includes data up to Census Day, May 15, 2001.

Table 6: Ages of Aboriginal Population, Canada and Saskatchewan, 2001

| Aboriginal Population Data | 2001 | % of total population | 1996 | % of total population |
|---|---------|---|---------|---------------------------------------|
| Aboriginal Population in Canada | 976,305 | 3.3% | 799,010 | 2.8% |
| Aboriginal Population in Saskatchewan | 130,190 | 13.3% | 111,245 | 11.4% |
| | | | | |
| Aboriginal population 15 years of age and older | 2001 | % of total population aged 15 and older | 1996 | % of total population aged 15 & older |
| Aboriginal population in Canada aged 15 years and older Aboriginal population in Saskatchewan | 652,350 | 2.7% | 518,590 | 2.3% |
| aged 15 years and older | 78,660 | 10.4% | 64,885 | 8.7% |

(Source: Statistics Canada. 2001 Census data, adapted)

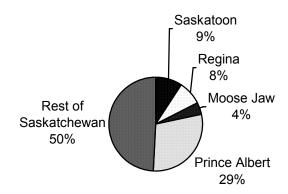
Table 7: Percent of Population that is Aboriginal by Age Group, 2001

| Ages of Aboriginal Population 2001 | Aboriginal Population In Canada | % of Canadian Aboriginal population | Saskatchewan Aboriginal Population | % of population in Saskatchewan that is Aboriginal in each age group | Saskatchewan Population | % of overall population in Saskatchewan |
|---|---------------------------------------|--|--|--|----------------------------|---|
| 0-14 years | 323,965 | 33.2% | 51,535 | 24.9% | 207,230 | 21.2% |
| 15-24 | 169,070 | 17.3% | 23,965 | 16.6% | 144,240 | 14.7% |
| 25-34 | 148,550 | 15.2% | 18,870 | 16.4% | 115,125 | 11.8% |
| 35-44 | 145,855 | 14.9% | 16,350 | 10.9% | 149,330 | 15.3% |
| 45-54 | 96,365 | 9.9% | 9,890 | 7.6% | 130,885 | 13.4% |
| 55-64 | 52,830 | 5.4% | 5,375 | 6.3% | 84,560 | 8.6% |
| 65 and older | 39,680 | 4.1% | 4,210 | 2.8% | 147,565 | 15.1% |
| Total - all ages | 976,315 | 100.0% | 130,195 | 13.3% | 978,935 | 100.0% |

(Source: Statistics Canada. 2001 Census data, adapted)

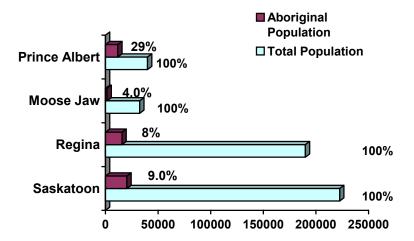
Figures 4 and 5 depict the Aboriginal population in the province. Figure 4 shows the Aboriginal population in 2001 in each of the four cities where a SIAST campus is located. The four cities account for 50% of the total Aboriginal population in Saskatchewan (which represents an increase of 15% since 1996). Figure 5 shows the Aboriginal population in 2001 in each of these cities as a percentage of the total population of the cities. The information is taken from the Census 2001 data (as prepared by the Saskatchewan Bureau of Statistics).

Figure 4: Aboriginal Population in 2001 in Saskatoon, Regina, Moose Jaw and Prince Albert as % of Total Population in Saskatchewan



(Source: Statistics Canada. 2001 Census data, prepared by the Saskatchewan Bureau of Statistics)

Figure 5: Aboriginal Population in 2001 in Saskatoon, Regina, Moose Jaw and Prince Albert as % of Total Population in City



(Source: Statistics Canada. 2001 Census data, prepared by the Saskatchewan Bureau of Statistics)

2.2 Education Levels

2.2.1 Kindergarten to Grade 12 Population

In the published *Saskatchewan Education Indicators, Kindergarten to Grade 12*, 2000 report, Saskatchewan Learning reports that:

Saskatchewan's school-aged population has been declining in recent years. The number of Aboriginal school-aged children in Saskatchewan has been increasing. 20% of the school-aged population is Aboriginal.

The population trend in the province has implications for all post-secondary institutions. Table 8 below identifies potential post-secondary students for the 1998-2002 period. Province-wide enrollment projection for the 2003-05 period are also presented. The term, SpSec refers to a record of students within the secondary division (grades 9-12), but who are not specifically in any one particular grade within that division.

Table 8: Grade 9 to Grade 12 Enrollments Province-wide (1998 to 2005) and in the Four Major Cities, 1998 to 2002

Province-wide

| Enrollment Year | Gr9 | Gr10 | Gr11 | Gr12 | SpSec | Total |
|-----------------|--------|--------|--------|--------|-------|--------|
| 1998 | 15,013 | 15,554 | 14,324 | 15,033 | 1,130 | 61,054 |
| 1999 | 14,965 | 15,477 | 14,296 | 15,698 | 1,124 | 61,560 |
| 2000 | 14,505 | 15,659 | 14,215 | 15,604 | 992 | 60,975 |
| 2001 | 14,146 | 15,029 | 14,448 | 15,632 | 1,330 | 60,585 |
| 2002 | 14,385 | 15,120 | 14,112 | 16,098 | 778 | 60,493 |
| 2003* | 14,243 | 15,147 | 14,028 | 15,509 | 1,071 | 59,998 |
| 2004* | 14,272 | 15,102 | 14,094 | 15,465 | 1,071 | 60,004 |
| 2005* | 13,362 | 15,133 | 14,052 | 15,537 | 1,071 | 59,155 |

^{*} Projected

Note: Enrollments from all publicly funded School Divisions.

Saskatoon

| Enrollment Year | Gr9 | Gr10 | Gr11 | Gr12 | SpSec | Total |
|-----------------|-------|-------|-------|-------|-------|--------|
| 1998 | 2,751 | 2,868 | 2,600 | 3,293 | 148 | 11,660 |
| 1999 | 2,941 | 2,869 | 2,716 | 3,337 | 115 | 11,978 |
| 2000 | 2,820 | 3,057 | 2,666 | 3,439 | 135 | 12,117 |
| 2001 | 3,006 | 2,951 | 2,865 | 3,470 | 163 | 12,455 |
| 2002 | 2,988 | 3,042 | 2,756 | 3,721 | 189 | 12,696 |

Note: Enrollments from Saskatoon Public SD 13 (4150000) and St. Paul SSD 20 (4160000) only.

Regina

| Enrollment Year | Gr9 | Gr10 | Gr11 | Gr12 | SpSec | Total |
|-----------------|-------|-------|-------|-------|-------|--------|
| 1998 | 2,725 | 2,685 | 2,484 | 2,508 | 455 | 10,857 |
| 1999 | 2,733 | 2,699 | 2,526 | 2,727 | 436 | 11,121 |
| 2000 | 2,636 | 2,812 | 2,628 | 2,853 | 313 | 11,242 |
| 2001 | 2,463 | 2,782 | 2,650 | 2,943 | 462 | 11,300 |
| 2002 | 2,560 | 2,726 | 2,587 | 3,127 | 112 | 11,112 |

Note: Enrollments from Regina Public SD 13 (2150000) and Regina Separate SD (2160000) only.

Moose Jaw

| Enrollment Year | Gr9 | Gr10 | Gr11 | Gr12 | SpSec | Total |
|-----------------|-----|------|------|------|-------|-------|
| 1998 | 561 | 586 | 549 | 578 | 58 | 2,332 |
| 1999 | 539 | 569 | 561 | 654 | 71 | 2,394 |
| 2000 | 505 | 580 | 563 | 681 | 90 | 2,419 |
| 2001 | 528 | 537 | 609 | 686 | 15 | 2,375 |
| 2002 | 498 | 555 | 563 | 672 | 48 | 2,336 |

Note: Enrollments from Moose Jaw SD 1 (2250000) and Moose Jaw RCSSD 22 (2260000) only.

Prince Albert

| Enrollment Year | Gr9 | Gr10 | Gr11 | Gr12 | SpSec | Total |
|-----------------|-----|------|------|------|-------|-------|
| 1998 | 699 | 870 | 779 | 796 | 171 | 3,315 |
| 1999 | 688 | 860 | 744 | 811 | 164 | 3,267 |
| 2000 | 686 | 871 | 773 | 856 | 138 | 3,324 |
| 2001 | 509 | 645 | 633 | 648 | 212 | 2,647 |
| 2002 | 539 | 647 | 765 | 670 | 201 | 2,822 |

Note: Enrollments from Prince Albert SD 3 (5650000), Prince Albert RCSSD 6 (5660000) Saskatchewan Rivers SD 119 (7450000) 1997-98 on.

(Source: Saskatchewan Learning. School Grants Database, Regina SK. 2003)

According to the enrollment statistics provided by Saskatchewan Learning in the report entitled, Saskatchewan Learning Projections for Kindergarten to Grade 12, 2003-2004 to 2012-13, which was completed in January 2003, the total K-12 provincially funded enrollment in 1980-81 was 203,573 students; in 1990-91, 198,916 students; and in 2002-03; 177,575 students; which indicates a reduction of approximately 26,000 K-12 students in the past twenty plus years (1981-2003) within the province. Projected provincially funded enrollments for the 2003-04 to 2012-13 period are shown in Figure 6 below.

Thousands

Figure 6: Saskatchewan K-12 Provincially Funded Enrollment Projection 2004-2012

(Source: Saskatchewan Learning. Enrollment Projections for Kindergarten to Grade 12, 2003-04 to 2012-13, January 2003 update)

2.2.2 Post-Secondary Education Completion Rates – Canada and Saskatchewan

Table 9 presents the level of educational attainment in Saskatchewan and Canada, for the age group 25 to 64, for the 1991 and 2001 Census years. College and university participation has risen over the 1991-2001 period while the number of people with less than high school education has declined. Overall, 49.9% of Saskatchewan people aged 25 to 64 have some post secondary education which is slightly higher than Canada (at 48.3%). Such trends are reflective of a population that is increasing in education so as to meet the demand requirements in an ever-increasing tight labour market.

Table 9: Level of Educational Attainment for the Age Group 25 to 64, Saskatchewan and Canada, 2001

| | Saskatch 1991 | Saskatchewan 1991 | | ewan | Canada 2001 | |
|------------------------------------|------------------|----------------------|---------|-------|----------------|-------|
| | Number | % | Number | % | Number | % |
| Less than high school | 173,285 | 36.7 | 134,585 | 28.3 | 5,775,010 | 29.0 |
| High school | 102,700 | 21.8 | 103,875 | 21.8 | 4,511,655 | 22.7 |
| Trades | 69,630 | 14.8 | 76,050 | 16.0 | 2,415,280 | 12.1 |
| College | 55,725 | 11.8 | 74,405 | 15.6 | 3,188,580 | 16.0 |
| University | 70,615 | 15.0 | 87,005 | 18.3 | 4,022,625 | 20.2 |
| All trades, college and university | 195,970 | 41.5 | 237,460 | 49.9 | 9,626,485 | 48.3 |
| Population 25 to 64 | 471,955 | 100.0 | 475,920 | 100.0 | 19,913,150 | 100.0 |

(Source: Statistics Canada. 2001 Census: Level of Educational Attainment for the Age Group 25 to 64, 2001 Counts for Both Sexes, for Saskatchewan - 20% Sample Data)

In Figure 7, the Statistics Canada Census 2001 reports that the majority of the populations in Saskatoon, Regina, Prince Albert and Moose Jaw have some post-secondary education. A comparison to Saskatchewan and Canada, as a whole, is also shown in Figure 7.

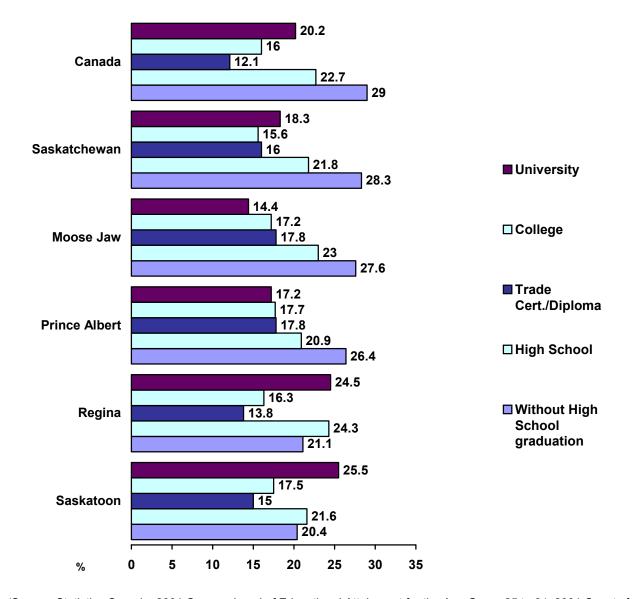
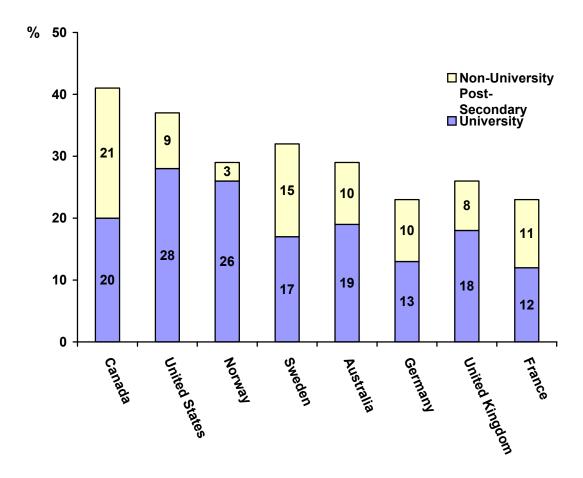


Figure 7: Education Indicators as Percent of the Population, 2001

(Source: Statistics Canada. 2001 Census: Level of Educational Attainment for the Age Group 25 to 64, 2001 Counts for Both Sexes, for Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations - 20% Sample)

Figure 8 presents the 2001 level of post-secondary education in selected Organization for Economic Co-operation and Development (OECD) countries. Canada is by far the leader in terms of combined post-secondary education levels (university and non-university) of all the countries in the OECD. The United States, though, has a higher percentage of post-secondary students who have completed university education (at 28% compared to 20% in Canada).

Figure 8: Percentage of Population Aged 25-64 that has Completed Post-secondary Education [Selected OECD Countries 2001]



OECD Average, University and non-university post-secondary (24%)
OECD Average, University (15%)

(Source: Statistics Canada. 2001 Census: Education in Canada: Raising the Standard, Catalogue no.:96F0030XIE2001012)

2.2.3 Education Indicators for Aboriginal Population

Figure 9 presents the levels of educational attainment for Aboriginal people in Canada for Census years 1996 and 2001. As shown in Figure 9, educational attainment has risen since 1996 with more Aboriginal students successfully completing high school, trades, college and university.

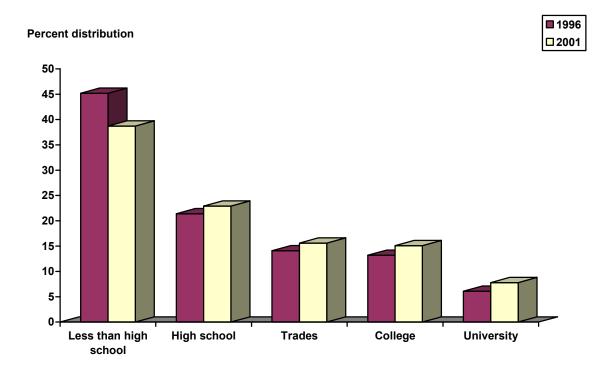


Figure 9: Levels of Educational Attainment Aged 25 to 64, Canada, 1996 and 2001

(Source: Statistics Canada. 2001 Census: Level of Educational Attainment for the Age Group 25 to 64, 2001 Counts for Both Sexes, for Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations - 20% Sample)

2.2.4 Post-Secondary Issues

An *Omnibus Poll* within Saskatchewan is conducted for the Government of Saskatchewan four times per year. Questions on Saskatchewan Learning were part of the November 2002 *Omnibus Poll*. Regarding the issue of post-secondary education and training in Saskatchewan, the poll reported that the population in Saskatchewan, in November 2002, rated the quality of Saskatchewan's training programs as excellent/good (13%/49%). This has been consistent for the last number of quarterly polls.

The results of the *Omnibus Poll* survey of approximately one-thousand of Saskatchewan's population, states that one third (33%) of Saskatchewan residents would (if they were advising a young person today) tell them to attend SIAST or technical training school. Other responses were as follows:

University (26%) Regional College (2%)

Apprenticeship Program (10%) Private vocational school (1%)

Out-of-province institution (2%) Unsure (9%)

(Source: Fast Consulting. Omnibus Provincial Public Opinion Survey. November 2002)

Those who participated in post-secondary education did so for the following reasons: gain new job related skills (33%), increasing knowledge (30%), further education (27%), increased income/job security (22%), required/job related (12%), personal enjoyment (7%), and unsure (2%).

2.2.5 Intention to Pursue Post-Secondary Education

The Council of Ministers of Education, Canada, in the 1999 Report on *Public Expectations of Post-Secondary Education in Canada*, identified the five key functions of post-secondary education to be as follows:

- inspire and enable individuals to develop their capabilities to the highest potential levels throughout their lives
- advance, preserve and disseminate knowledge and understanding
- serve the learning and knowledge needs of an adaptable, sustainable, knowledge-based economy at local, regional, and national levels
- foster the application of knowledge and understanding to the benefit of the economy and society
- to help shape a healthy, democratic, civil society

(Source: Council of Ministers of Education. Canada (CMEC) A Report on Public Expectations of Post-Secondary Education in Canada, February 1999, ISN 0-88987-118-3)

Statistics Canada, in the *Report on Adult Education and Training in Canada: Learning a Living,* reported on the results of a survey on adult education and training. The writers of that report stated that approximately 28% of Canadians (more than 6 million people aged 18 and over) were enrolled in adult education and training activities in 1997. Three of every four who did so took the training for job-related purposes. The figure is slightly down from the 29% that was reported in 1991. Adult education and training includes all structured educational (credit and non-credit courses) and training activities taken at work, at school or at any other location for job-related or personal interest reasons. The survey focused on learners not attending regular school or university. Consequently, the population used for the survey did not include all regular full-time students, except those full-time students subsidized by employers; full-time students aged 20 and over who were enrolled in elementary or secondary school programs; and full-time students aged 25 and over enrolled in post-secondary programs. All other students in the 17-24 age range were excluded from the survey.

The report went on to state that, in 1997, the majority of those who took training were from the employed population rather than the unemployed – 29% of employed workers and 20% of unemployed workers. The participation rate of those in the 55+ age categories was 20%, compared to more than 30% in all other age categories. In the age category 17 to 24, the participants spent an average of 451 hours on additional training.

(Source: Statistics Canada, Daily for 2001-05-10)

In 1999, the High School Consortium, consisting of post-secondary institutions (University of Regina, University of Saskatchewan, SIAST, and the Saskatchewan Regional Colleges), along with Saskatchewan Learning (formerly the Saskatchewan Education and Saskatchewan Post-Secondary Education and Skills Training departments), surveyed Grade 11 and 12 students in the province to determine their intentions upon completion of high school. Students in reserve schools were not surveyed at the time given that they operate within the federal jurisdiction of

government. The results of the survey were presented in the *1999 High School Leaver Study* report. A total of 19,396 grade 11 and 12 students responded to the survey. Seventy-seven percent of students indicated that they were considering some form of post-secondary education, either within twelve months or at some time in the future. Figure 10 identifies the future plans of the students, as of spring 1999.

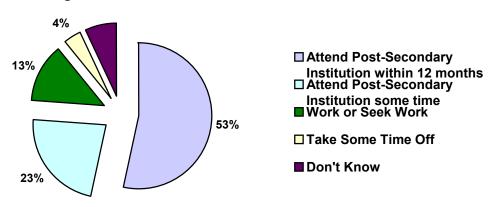


Figure 10: Future Plans of Grades 11 and 12 Students in Saskatchewan, in 1999

(Source: High School Lever Consortium. 1999 Saskatchewan High School Leaver Study, 2000)

2.2.6 Why Youth are not Attending Post Secondary Education

A 2001 Canada Millennium Research Series report entitled Why don't they go on?, gave an account as to the factors that determine why Canadian youth decide not to attend post secondary education in Canada. The major finding of the report was that 77% of the students listed a non-financial reason for not attending post secondary school. The reasons given for not pursuing post secondary education in Canada are presented in Figure 11. The report went on to state that students from the prairie provinces mentioned the most that they wanted to take some time off, when asked about not attending post secondary education. A third interesting finding was that those respondents whose father had a low level of education (i.e., less than high school) were more likely to indicate that their reason for not attending postsecondary school was because they had no interest in further education. Respondents' mother's education level had no effect (statistically speaking) on the most important reason for non-attendance.

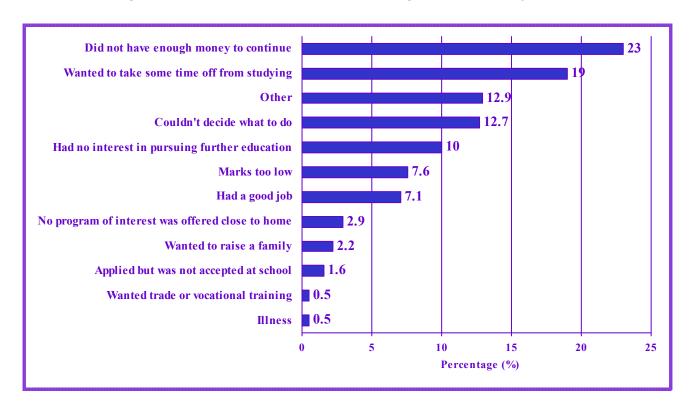


Figure 11: Reasons Given for Not Pursuing Post Secondary Education

(Source: Canada Millennium Scholarship Foundation, Research Series, Why Don't They Go On? Factors Affecting the Decisions of Canadian Youth Not to Pursue Post-Secondary Education, 2001)

2.3 Labour Force

2.3.1 Canadian Labour Force Characteristics

There have been three key characteristics which have shaped Canada's labour force over the past decade. These include: a demand for skills in the face of advancing technologies and an ever-increasing "knowledge based economy"; a working-age population that is increasingly becoming older; and a dependency upon immigration as a source of skills and manpower to meet the labour force shortages that is projected to become increasingly prevalent in the next decade.

The demand for skills has become increasingly apparent in the data from the 2001 Census (Table 10). Between 1991 and 2001, the labour force increased by 1.3 million with nearly half of this growth attributed to high skilled occupations which require post secondary education. New job growth requiring high school or less accounted for only a quarter of the increase.

| Table 10: Occupational skill groups, Canada, Labour force aged 15 and over, | , |
|---|---|
| 1991, 1996 and 2001 | |

| Both Sexes | 1991 | 1996 | 2001 ¹ | Growth 1991-2001 | % Growth 1991-2001 | Contribution to labour force growth 1991-2001 ² |
|----------------------------|------------|------------|-------------------|---------------------|-----------------------|---|
| All occupations | 14,220,230 | 14,317,540 | 15,576,560 | 1,356,330 | 9.5 | 100.0 |
| University | 1,904,445 | 2,082,810 | 2,530,895 | 626,450 | 32.9 | 46.2 |
| College | 3,172,000 | 3,167,340 | 3,369,510 | 197,510 | 6.2 | 10.8 |
| Apprenticeship Training | 1,343,175 | 1,192,905 | 1,292,605 | -50,570 | -3.8 | -3.7 |
| Secondary or less | 6,417,200 | 6,585,370 | 6,762,640 | 345,440 | 5.4 | 25.5 |
| Managers | 1,383,405 | 1,289,125 | 1,620,905 | 237,500 | 17.2 | 17.5 |

¹Includes the experienced labour force only. The experienced labour force comprises persons who were either employed or unemployed during the week preceding Census Day but who have been employed at some point since January 1 of the year preceding the census year.

(Source: Statistics Canada, 2001 Census: The changing profile of Canada's labour force, Catalogue no.: 96F0030XIE2001009)

Given the tightening of the Canadian labour supply, Canada has increasingly turned to immigration as a source of meeting the demand for labour. The 2001 Census data shows that immigrants who arrived in the 1990s, and who were in the labour force in 2001, represented almost 70% of the total growth of the labour force over the past decade. If this trend continues, it is quite conceivable that immigration could account for virtually all of the labour force growth by 2011.

The labour force participation rate for Canadian men and women over the 1998-2002 period is presented in Table 11. As evident from Table 11, women are making significant inroads when it comes to participating in the Canadian labour force while a significant percentage of men aged 65 and over continue to participate in the Canadian labour force.

²Contributions to labour force growth is calculated by dividing the growth for any sex and occupational skill group category by the total labour force growth.

Table 11: Labour force and participation rates, Canada, 15 years and over, 1998-2002

| | 1998 | 1999 | 2000 | 2001 | 2002 | | |
|-------------------------|----------|----------|----------|----------|----------|--|--|
| | Thousand | | | | | | |
| Labour Force | 15,417.7 | 15,721.2 | 15,999.2 | 16,246.3 | 16,689.4 | | |
| Men | 8,380.2 | 8,534.0 | 8,649.2 | 8,769.2 | 8,989.8 | | |
| Women | 7,037.5 | 7,187.2 | 7,350.0 | 7,477.1 | 7,699.6 | | |
| Participation rates | | | % | | | | |
| 15 years and over | 65.1 | 65.6 | 65.9 | 66.0 | 66.9 | | |
| Men | 72.1 | 72.5 | 72.5 | 72.5 | 73.3 | | |
| Women | 58.4 | 58.9 | 59.5 | 59.7 | 60.7 | | |
| 15-24 years | 61.9 | 63.5 | 64.4 | 64.7 | 66.3 | | |
| Men | 63.5 | 65.3 | 65.9 | 66.1 | 67.7 | | |
| Women | 60.2 | 61.7 | 62.9 | 63.3 | 64.9 | | |
| 25-44 years | 85.6 | 85.8 | 86.0 | 86.3 | 86.8 | | |
| Men | 92.2 | 92.1 | 92.1 | 92.1 | 92.4 | | |
| Women | 79.0 | 79.6 | 80.0 | 80.4 | 81.2 | | |
| 45 years and over years | 47.1 | 47.8 | 48.5 | 48.9 | 50.3 | | |
| Men | 55.8 | 56.6 | 56.9 | 57.1 | 58.6 | | |
| Women | 39.2 | 39.9 | 40.9 | 41.5 | 42.8 | | |
| 65 years and over | 6.4 | 6.2 | 6.0 | 6.0 | 6.7 | | |
| Men | 10.2 | 9.8 | 9.5 | 9.4 | 10.5 | | |
| Women | 3.5 | 3.4 | 3.3 | 3.4 | 3.7 | | |

(Source: Statistics Canada. 2001 Census: Labour force and participation rates)

Finally, it is significant to report that the work force is older with the average age being 39.0 years in 2001, up from 37.1 years in 1991(Table 12). Moreover, in Census 2001, 15% of the labour force was within 10 years of retirement age. Coupled with low fertility rates, fewer younger people are entering the work force to replace individuals who are nearing retirement. As a result, in 2001, there were 2.7 persons aged 20 to 34 in the labour force for every participant aged 55 and over – which is down from a ratio of 3.7 in 1981.

2.3.2 Saskatchewan Labour Force Characteristics

Saskatchewan had the oldest labour force in Canada in 2001, with an average age of 39.8 years (which is above the national average of 39.0). The primary reason for the age increase is due to the decline in people aged 20 to 34, which had declined by 22.5% over the 1990s, an aging farm population workforce, and a much larger percentage of the labour force who are over 65 years of age (Table 12).

Table 12: Age indicators, Canada and Saskatchewan, 1991 and 2001

| | % aged 55 a | and over 2001 | Average a | ge 2001 | # of worker to 34 for ea worker age over 1991 | ach |
|---------------------|-------------|------------------|-----------|------------|---|-----|
| Canada ¹ | | 1 | · | | ı | • |
| Both sexes | 10.6 | 11.8 | 37.1 | 39.0 | 3.8 | 2.7 |
| Men | 12.1 | 13.3 | 37.7 | 39.5 | 3.3 | 2.3 |
| Women | 8.8 | 10.0 | 36.4 | 38.5 | 4.7 | 3.2 |
| Saskatchewan | | | | | | |
| Both sexes | 15.0 | 15.2 | 38.3 | 39.8 | 2.5 | 1.9 |
| Men | 17.0 | 17.1 | 38.9 | 40.4 | 2.2 | 1.7 |
| Women | 12.4 | 13.0 | 37.4 | 39.1 | 3.1 | 2.3 |

¹Includes the experienced labour force only. The experienced labour force comprises persons who were either employed or unemployed during the week preceding Census Day but who have been employed at some point since January 1 of the year preceding the census year.

(Source: Statistics Canada. 2001 Census: The changing profile of Canada's labour force, Catalogue no.: 96F0030XIE2001009)

As seen at the national level, the demand for skilled labour is also high in Saskatchewan. The number of occupations seeking university qualifications had increased by 14.7% over the 1991-2001 period while managerial qualifications rose by 5.1% (Table 13). The number of occupations seeking college qualifications dropped somewhat over the same period.

Table 13: Occupational skill groups, Saskatchewan, labour force aged 15 and over, 1991-2001

| | 1001 | 22241 | % Growth |
|-------------------------|---------|-------------------|-----------|
| Both Sexes | 1991 | 2001 ¹ | 1991-2001 |
| All occupations | 499,770 | 504,415 | 0.9 |
| University | 56,900 | 66,680 | 14.7 |
| College | 147,365 | 142,800 | -3.2 |
| Apprenticeship Training | 39,800 | 40,565 | 1.9 |
| Secondary or less | 215,275 | 211,765 | -1.7 |
| Managers | 40,430 | 42,605 | 5.1 |

¹Includes the experienced labour force only. The experienced labour force comprises persons who were either employed or unemployed during the week preceding Census Day but who have been employed at some point since January 1 of the year preceding the census year.

(Source: Statistics Canada. 2001 Census: The changing profile of Canada's labour force, Catalogue no.: 96F0030XIE2001009)

The labour force, as reported in the *February 2003 Labour Force Survey*, published by the Saskatchewan Bureau of Statistics, identifies the following employed labour force by industry for the 2000, 2001 and 2002 years (Table 14).

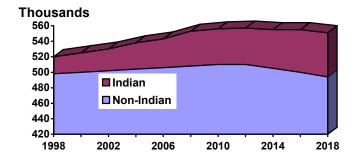
Table 14: Employed Labour Force by Industry 2000-02

| Industry | 2002 ('000) | 2001 ('000) | 2000 ('000) |
|---|----------------|----------------|----------------|
| Agriculture | 50.7 | 51.3 | 62.1 |
| Manufacturing | 29.5 | 29.8 | 29.2 |
| Construction | 25.5 | 24.9 | 24.0 |
| Transportation, Communication and Other Utilities | 28.8 | 29.6 | 31.7 |
| Trade | 78.0 | 73.4 | 76.3 |
| Finance, Insurance and Real Estate | 27.6 | 26.8 | 26.6 |
| Service | 198.9 | 191.0 | 192.6 |
| Public Administration | 27.0 | 28.0 | 26.7 |
| Other Primary Industries | 15.8 | 17.7 | 15.9 |
| Total All Industries | 482.0 | 472.4 | 485.0 |

(Source: Saskatchewan Bureau of Statistics. Monthly Labour Force Statistics, February 2003)

The Saskatchewan Chamber of Commerce, Action Saskatchewan: A Blueprint for 2005 – It's All About Growth, reports that, with Saskatchewan traditionally having the lowest unemployment rates in the nation, competition or choices for employers wanting to increase their staff complements is limited. The report points out that, based on current data, the existing work force in the province will peak in 2008 and then start to decline rapidly as the aging work force heads into retirement. On the other hand, and as reported earlier, the First Nations population is growing and will continue to do so for sometime (Figure 12). The First Nations population, according to the Action Saskatchewan report, will be the work force of the future in Saskatchewan. This target group, however, is not currently finding its way into the workforce at the same pace as other segments of society. This, according to Action Saskatchewan, represents lost productivity for the province, particularly at a time when labour shortages are increasingly common.

Figure 12: Saskatchewan's Labour Supply 1998 - 2018



(Source: Saskatchewan Chamber of Commerce. Action Saskatchewan: A Blueprint for 2005 – It's All About Growth, May 2002)

2.3.3 Employment by Industry

Canada had a record employment rate in 2002, increasing by 3.7% or 560,000 people. In December, the proportion of the working age population employed had reached 62.4%, which was the highest on record. A strong economy led to such improvement in the labour market. Most firms were hiring in 2002 with the largest gains being in manufacturing, where employment rose by 125,000 or 5.6%. Overall, the goods-producing sector increased by 5.8% while the service producing sector grew by 3.0%.

It was also reported that there were more part-time jobs for youths in 2002. Youth employment increased 104,000 or 4.5% between December 2001 and December 2002. This expansion was partially attributed to the greater availability of part-time jobs, which increased by 223,000 or 8.1%. A smaller but still notable proportion of the part-time increase came from the education and health care sectors.

The increase in full-time employment was healthy as well. Virtually all of the increase in manufacturing and construction employment came in the form of full-time employment. This helped increase full-time employment by 336,000 or 2.7%. This is a considerable increase over 2001, where full-time employment had fallen by 26,000 or -0.2%.

The April 4, 2003 edition of the *Statistics Canada Daily* reports that employment continued to edge upward by 14,000 in March 2003 while the national unemployment rate dipped 0.1 percentage points to 7.3%. Moreover the article reported that although the employment rate (62.5%) and the participation rate (67.5%) remained at all-time highs, the pace of employment growth has slowed. The modest increase in employment in March 2003 brings gains for the first three months of the year to 67,000, the smallest quarterly increase since the end of 2001 (Table 15).

There were 15,717,000 employed in the public and private sector at the end of March 2003 which represents an overall increase of 2.9% over March 2002. The bulk of the employment was in the private sector, as shown in Table 16.

Table 15: Employment by Industry, Canada

| | February 2003 | March 2003 | February to March 2003 | March 2002 to March 2003 | February to March 2003 | March 2002 to March 2003 | | | |
|---|---------------------|---------------|---------------------------|-----------------------------------|---------------------------|-----------------------------------|--|--|--|
| | Seasonally adjusted | | | | | | | | |
| | '000 | | % | | | | | | |
| All industries | 15,702.8 | 15,717.0 | 14.2 | 448.9 | 0.1 | 2.9 | | | |
| Goods-producing sector | 4,006.6 | 3,989.2 | -17.4 | 90.9 | -0.4 | 2.3 | | | |
| Agriculture | 347.8 | 340.1 | -7.7 | 26.0 | -2.2 | 8.3 | | | |
| Forestry, fishing, mining, oil and gas | 279.9 | 290.8 | 10.9 | 6.9 | 3.9 | 2.4 | | | |
| Utilities | 127.1 | 131.5 | 4.4 | 5.4 | 3.5 | 4.3 | | | |
| Construction | 903.1 | 915.2 | 12.1 | 58.5 | 1.3 | 6.8 | | | |
| Manufacturing | 2,348.7 | 2,311.5 | -37.2 | -6.0 | -1.6 | -0.3 | | | |
| Services-producing sector | 11,696.2 | 11,727.8 | 31.6 | 358.0 | 0.3 | 3.1 | | | |
| Trade | 2,448.7 | 2,447.0 | -1.7 | 9.7 | -0.1 | 0.4 | | | |
| Transportation and warehousing | 763.4 | 766.3 | 2.9 | 33.2 | 0.4 | 4.5 | | | |
| Finance, insurance, real estate and leasing | 934.3 | 929.3 | -5.0 | 46.5 | -0.5 | 5.3 | | | |
| Professional, scientific and technical services | 1,008.6 | 1,006.3 | -2.3 | 30.3 | -0.2 | 3.1 | | | |
| Management, administrative and other support | 612.5 | 610.4 | -2.1 | 15.5 | -0.3 | 2.6 | | | |
| Educational services | 1,051.5 | 1,054.3 | 2.8 | 68.8 | 0.3 | 7.0 | | | |
| Health care and social assistance | 1,670.7 | 1,669.8 | -0.9 | 111.1 | -0.1 | 7.1 | | | |
| Information, culture and recreation | 685.8 | 685.7 | -0.1 | -23.8 | 0.0 | -3.4 | | | |
| Accommodation and food services | 1,013.0 | 1,045.6 | 32.6 | 40.6 | 3.2 | 4.0 | | | |
| Other services | 711.1 | 723.1 | 12.0 | 26.1 | 1.7 | 3.7 | | | |
| Public administration | 796.5 | 790.1 | -6.4 | 0.3 | -0.8 | 0.0 | | | |

(Source: Statistics Canada Daily. Labour Force Survey. Daily for 2003-04-04)

Table 16: Employment by Public and Private Sector, Canada, March 2003

| | February 2003 | March 2003 | Change February to March 2003 | March 2002 to March 2003 | February to March 2003 | March 2002 to March 2003 |
|-------------------------|------------------|---------------|--|-----------------------------------|------------------------------|-----------------------------------|
| | '000 | '000 | % | '000 | % | % |
| Total Employees | 15,702.8 | 15,717.0 | 14.2 | 448.9 | 0.1 | 2.9 |
| Public sector employees | 2,983.5 | 2,977.6 | -5.9 | 125.8 | -0.2 | 4.4 |
| Private sector | 12,719.3 | 12,739.4 | 20.1 | 323.1 | 0.2 | 2.6 |
| Private employees | 10,340.0 | 10,347.4 | 7.4 | 224.6 | 0.1 | 2.2 |
| Self-employed | 2,379.3 | 2,392.0 | 12.7 | 98.5 | 0.5 | 4.3 |

(Source: Statistics Canada Daily. Labour Force Survey. Daily for 2003-04-04)

2.3.4 Shortage of Skilled Workforce

Nationally, Canada's labour force totaled around 15.6 million people (as of May 15, 2001), which represents an increase of 9.5% from 14.2 million a decade earlier. The number of women in the labour force grew exceedingly, doubling the pace of men. This represented an increase of 13.8% to 7.3 million. The number of men rose by 6.0% to 8.3 million.

Of the 15.6 million people working in the labour force, there were 2.5 million employed in highly skilled occupations. These highly skilled occupations accounted for roughly 50% of the total labour force growth in the last decade. Hence, there has been a change in the skills that are required to participate in the Canadian labour force.

The same trends are being experienced in Saskatchewan in terms of the shortage of skilled labour. This is largely attributable to an aging population, which was alluded to earlier, and the magnitude of the impact is largely dependent upon the occupation in question. Among the occupations at risk, the health care sector is mentioned given the existing shortages already and also because of the health care needs of an aging population.

In March, 2002, a report entitled *Saskatchewan Employment Demand (SED) Forecast 2001*, projected total employment by skill type in Saskatchewan over the 2000-05 forecast period to be around 12,800 jobs. The occupation classifications, where these job openings are projected to occur, are identified as follows:

- Management Occupations.
- Business/Finance/Administration Occupations.
- Natural/Applied Sciences and Related Occupations.
- Health Occupations.
- Social Science/Education/Government Service/Religion Occupations.
- Art/Culture/Recreation/Sport Occupations.
- Sales and Service Occupations.
- Trades/Transport/Equipment Operation Occupations.
- Primary Industry Occupations.
- Processing/Manufacturing/Utilities Occupations.

The report went on to say that 73% of all job opportunities are projected to be in the service-producing sector of the economy, primarily in the Business, Sales and Service and Trades occupations. The report also stressed that many of the occupations will be difficult to fill, particularly in occupations related to the healthcare sector.

A more detailed analysis and description of labour shortages, based on consultations with industry, business and provincial associations is provided in Section 3.

2.4 Economic Highlights

2.4.1 Canadian Outlook

Canada turned in one of the best economic performances during 2002. The Canadian economy was strong, producing solid growth in real gross domestic product (GDP) and a significant increase in job growth. Approximately 560,000 new jobs were added since December 2001 and the economy grew by 3.2% over the year. The economic outlook for Canada looks bright in 2003, with economic growth forecasted to be around 3%.

Low interest rates had led to strong housing sales and increased sales for durable goods and automobiles in 2002. The Conference Board of Canada in its report entitled *Insider Edge*, projects inflation to remain relatively stable, at 2.4%, throughout 2003 while the national unemployment rate is forecasted to be around 7.3%. Real consumer spending is expected to rise by 2.7%, which is directly related to solid income gains by workers. Real disposable income (income after taxes and inflation) is expected to rise by 2.9%, which is reflective of the significant employment gains of 560,000 during 2002. A further employment gain of approximately 400,000 jobs is projected for 2003 which should bode well for a healthy Canadian economy.

2.4.2 Saskatchewan Outlook

The strength of the Canadian economy bodes well for Saskatchewan. As a result of improved economic conditions in our export markets, forecasters are expecting Saskatchewan's economy to gain momentum in 2003. The February 2003 edition of the *Saskatchewan Economic News* reported that January 2003 was the highest on record for people working in the province. A total of 475,500 people were employed in January 2003 (seasonally unadjusted), which surpassed the previous record set three years ago. Non-agricultural employment rose by 16,900 jobs over January 2002 while youth employment (ages 15-24) increased by 5,000 over the same time period.

The report also stated that Saskatchewan's unemployment rate was 6.5% in January 2003, thus resulting in the third lowest unemployment rate in Canada and well below the national average of 8.1%. In addition, the report mentions that forecasters expect Saskatchewan's economy to grow in 2003. Forecasts by Scotiabank (2.6%) and BMO Nesbitt Burns (2.7%) projected a strong real growth rate in GDP. Other financial institutions report similar forecasts for Saskatchewan's economy in 2003 which, in turn, should lead to significant employment growth over the year.

The *Economic Review 2002* highlights the year in review in terms of economic conditions within the province. Some of the highlights are noted as follows:

- The Saskatchewan economy rebounded in 2002 and had solid gains in employment growth.
- Saskatchewan's unadjusted unemployment rate remained as one of the lowest in the country throughout 2002, averaging 5.7% for the year.
- Due to higher crude oil prices, the value of 2002 crude oil sales was strong.
- Consumers continued to drive the economy in Saskatchewan throughout 2002 despite difficulties in the agriculture sector. Buoyed by employment and wage gains, consumers were spending in 2002.
- The value of residential construction rose by over 26% in 2002.
- Drought was problematic in 2002 which had a major impact on the farm sector. The year's
 harvest was well below the ten year average which resulted in farm cash receipts being
 substantially lower than in previous years.
- Saskatchewan's inflation rate was higher than the national rate for the 2002 year, at 4.2% compared to 3.9% nationally. This sharp increase was largely attributable to increases in transportation costs (namely, rising fuel prices).

2.4.3 Small Business

According to the *Overview*, small business remains one of the strong forces in the provincial economy. Table 17 shows the number of small businesses in the province in 1999. Businesses with less than 20 employees made up 90% of the total businesses in the province throughout 1999. In Canada this figure was 88% of all businesses.

Table 17: Saskatchewan's Small Businesses in 1999

| Size of Business | # of | Employment ² | Payroll ² |
|-----------------------------------|-------------------------|-------------------------|----------------------|
| | Businesses ¹ | (000's) | (\$000,00) |
| Businesses with <20 employees | 36,900 | 99.5 | 2,227 |
| Businesses with <5 employees | 24,876 | 44.1 | 1,006 |
| Businesses with 5 to 29 employees | 12,024 | 55.4 | 1,221 |
| Total – all businesses | 40,802 | 369.1 | 10,443 |

(Source: Statistics Canada, Business Register (1999)¹ and Employment Dynamics² - adapted)

2.4.4 Employment Demand Growth

The Saskatchewan Employment Demand (SED) Forecast 2001, which reports on key findings, projects changes in the economy of the province over the 2000-2005 five-year period. The report, which was prepared in March 2002, was a collaboration of Saskatchewan Learning and Human Resources Development Canada (HRDC), in partnership with Saskatchewan Economic and Cooperative Development, Saskatchewan Finance and Saskatchewan Labour. The following are the key findings of the forecast:

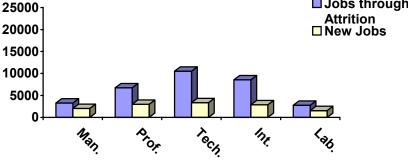
 Over 44,000 total job opportunities are projected, with an annual average growth rate of 0.5%. Economic activity is projected to account for one-third of total job opportunities, while attrition is expected to account for two-thirds.

- Total industry employment demand is projected to increase by 12,800 individuals or 3% over the forecast period. Most of the gains will occur in the Manufacturing, Business Services and Mining industries.
- It is projected that 65% of all job opportunities over the next five years will require management skills or at least some post-secondary education.
- Job opportunities in occupations requiring a high school diploma or less are still in demand. but occupations requiring post-secondary education are growing.
- The majority of the job opportunities in the Health and Social Sciences, Education, and Government occupations are projected to occur primarily through attrition.
- The fastest growing occupations are expected in the Natural and Applied Sciences and Processing, Manufacturing and Utilities categories, with an annual average growth of 2.8% projected for both.

The Saskatchewan Employment Demand (SED) Forecast 2001, projects the following job openings by skill level in the province to 2005, as identified in Figure 13.

■ Jobs through Attrition ■ New Jobs

Figure 13: Projected Job Openings by Skill Level in Saskatchewan 2000-2005



Man. = Management; Prof. = Professional; Tech. = Technical, Paraprofessional & Skilled Int. – Intermediate; Lab. = Labouring & Elemental

(Source: Saskatchewan Employment Demand (SED) Forecast 2001, March 2002)

2.4.5 Provincial Highlights and Emerging Trends

2.4.5.1 Saskatchewan Farms

According to the 2001 Census of Agriculture, Statistics Canada reported that the number of farms in Saskatchewan have declined sharply. The 2001 Census of Agriculture counted 50,598 census farms in Saskatchewan, which represents a decline of 11.2% over the past five years. This decrease is slightly higher than the national average of 10.7%. It was reported that Saskatchewan accounted for 20% of all Canadian farms, down from 25% two decades ago. Only Ontario and Alberta had more farms than Saskatchewan, at 59,728 and 53,652, respectively.

2.4.5.2 Measuring Retirement

Statistics Canada in the summer 2002 edition of *Perspectives on Labour and Income* reported in an article entitled, "Fact Sheet on Retirement", that the age of retirement has stabilized in recent years. The median age in the late 1970s and early 1980s was close to 65 but has since declined. After 1988, the trend has become to retire early. The article goes on to state that the popularity of early retirement incentives as a tool for workforce adjustment may have contributed to the early retirement behavior. Over the past two decades, women have retired somewhat earlier than men. In Saskatchewan, the median age at retirement between 1991 and 1995 was 64.1 years while from 1996 to 2000, the median age rose slightly to 64.6 years. For the same periods, the national median retirement ages were 62.2 and 61.0 years, respectively.

2.4.5.3 Education Sector Top Employer

The Saskatoon Star Phoenix reported on February 13, 2003 in an article entitled *Education sector top employer in Saskatoon in 2001: census* that "more people in Saskatoon worked in educational services than any other sector, according to the latest data from the 2001 census released." Statistics Canada reported 10,550 worked in the education sector, which represents 10.1% of the city's work force. The article also stated that, in Canada, the top job producer was in educational services.

2.4.5.4 Saskatchewan Wage Earners Lagging

The Saskatoon Star Phoenix reported on March 12, 2003 in an article entitled Sask. Wage earners lagging, that "There are more full-time workers earning a measly wage in Saskatchewan than in any other province, thanks in part to the high number of farmers." Statistics Canada reported that Saskatchewan has the highest percentage of fulltime workers earning \$20,000 a year or less, at 73,400 (27% of the fulltime labour force), while Canada had 1.5 million workers (or 17% of the workforce). The article concluded by pointing out that 26% of Saskatoon's labour force claims a university education and that there is a high correlation between the level of education and earnings in Saskatoon.

2.4.5.5 Jobs and Education

In the January-February 2003 edition of The Futurist, it was reported in an article entitled *Success without College*, that "although the labour market requires higher skills than in the past, many good jobs do not require college skills." This statement is based on the reporting from employers who view "soft skills" (noncognitive skill such as attitude, personal interaction, communication, and problem solving) as their greatest need. In another article of the edition entitled *Education in America: The Next 25 Years*, it was reported that the driving force in education over the next 25 years will be choice, fueled by changing roles for teachers, administrators, students, and entire communities. Education in 2025 will be viewed as being decentralized, related to time rather than to place and be accessible 24 hours a day, all year around.

2.4.5.6 Job Retraining Programs

In the March-April 2003 edition of The Futurist, it was reported in an article entitled *Trends Shaping the Future: Technological, Workplace, Management and Institutional Trends that* "a substantial portion of the labour force will be in job retraining programs at any moment." The reason for this assertion, according to the article, is that many jobs will be opening up in the next decade for people in highly skilled service occupations. Many employers will undertake this training given that they view employee training as a good investment. In the same article, *The Futurist* reports that jobs will become more mobile in the future and that second and third careers are becoming commonplace in the workforce, as more people make mid-life changes in occupation. Along with these new trends comes the work ethic, which is projected to vanish overtime. As a result, tardiness will continue to increase, sick abuse will become commonplace and job security/high pay will not be the motivators that they once were, because social mobility is high and people are seeking job fulfillment.

2.4.5.7 Studying and Working Trends

In the spring 2003 edition of Canadian Social Trends, it was reported that many students are working parttime so as to supplement their incomes while in school. The article, entitled *Studying and working: The busy lives of students with paid employment,* reported that both male and female postsecondary students devote about 2 hours per day to their paid work and approximately 5 hours a day to their educational pursuits. Leisure time is substituted with working and studying, the article reported. Such trends have significant implications for the education sector in the future. What the article concluded is that the transition to the labour market increasingly encroaches on other important life transitions, such as leaving home, union formation or having children. There are also important health issues related to stress, the effects of schedule conflicts, on sleeping patterns, and levels of physical activity that young people experience.

2.4.5.8 The Spirit of Enterprise

The March 2003 edition of *The Spirit of Enterprise: A Focus on Aboriginal Entrepreneurs*, which was published in the March 22nd edition of the Saskatoon Star Phoenix, reported a number of significant trends that are or will be taking place within Saskatchewan's economy and provincial labour force. The edition reported that Saskatchewan is home to an aging workforce and that shortages are projected in many occupations in the not too distant future. What is needed to limit these shortages is increasing "participation rates among Aboriginal people in Saskatchewan." The report stated that more than 27,000 Aboriginal students are currently enrolled in universities and colleges across Canada.

The report went on to state that forestry is Saskatchewan's second largest manufacturing industry, contributing \$750 million to the provincial economy and 300 forestry firms pursuing economic opportunities within the 355,000 square kilometers of northern commercial forest. The newly signed Canada-Saskatchewan Northern Development Agreement, which commits \$20 million over five years, was established to "support projects that will improve the living conditions of northerners and enhance the economic opportunities available to them." By putting projects into action, one would expect improved economic infrastructure and enhanced employment projects for Saskatchewan's northern residents.

The report also commented on Aboriginal people being a growing power in Saskatoon's workforce. As a result, the Saskatoon Regional Economic Authority (REDA), the Federation of Saskatchewan Indian Nations' Corporate Circle and the Saskatoon Tribal Council had formed in 2002 to promote employment opportunities for Aboriginal people. The Employer Circle works with employers to address cultural sensitivity training issues and how to work cooperatively with First Nations organizations.

2.4.5.9 University and College Graduates

The October 2002 Canada Millennium Scholarship Foundation Millennium Research Series report entitled *Meta-Analysis of Institutional Graduate Surveys* reported that 85% of all Canadians who attended and graduated from a community college became employed on a full-time or part-time basis within the first year after graduation. The percentage was even higher in Western Canada where nearly nine out of ten graduates were employed within the first year after graduation. In terms of salary, the report stated that the average salary of community college graduates between six months and a year after graduating is \$27,300 annually. The highest paid graduates of a community college program anywhere in Canada are those who had attended a Computing and Information Technology program offered in Western Canada. These graduates had earned, on average, \$34,100 annually.

According to the 2001 SIAST Graduate Employment Survey, over 91% of graduates had become employed with an average monthly salary of \$2,146 (for respondents in full time training related employment).

2.4.5.10 Women and Education Driving the Canadian Labour Force

The March 2003 edition of the Canadian Economic Observer reported in its *Year-End Review* article that recent trends in the labour force point to the feminization of the workplace. Almost half (46.1%) of the labour force is now female, which, in turn, has been coupled with rising participation rates throughout Canada. The report went on to state that, in 1976, adult women participated in the labour force at only half the rate of men (41% versus 81%). A generation later, we find the participation rates have changed for women between 25 to 44 years (81.2% for women and 92.4% for men). Most of these gains, according to the article, were made by married women.

The article went on to state that not only are more women entering the labour force, but are doing so with increasingly more education. In 2002, more women than men had at least some post-secondary education. In less than a decade, the percentage of women having more than just a high school education had risen from 39.7% to 53.3%. Moreover, the article noted that, since 1999, the number of women aged 25 to 44 with university degrees had exceeded men – growing by an astonishing 100,000 or 10% more than men (in 2002 alone!).

Lastly, the article stressed the importance of education by pointing out that, from 1993 to 1997, the less educated saw steady job losses (totaling almost half a million or 1% in terms of their employment rate), while the more educated worker saw jobs grow by 27%. What this trend shows is that there are fewer people in the labour force with lower levels of education and an increasing proportion of workers with some post-secondary education. Such trends should bode well for those individuals seeking increasing levels of education so that they can be successful in entering a skilled labour market.

2.4.5.11 Biotech Innovative Firms Becoming a Heavy User of Highly Skilled Labour

The March 28, 2003 edition of the *Statistics Canada Daily* reports that the biotechnology sector has become a heavy user of highly skilled labour over the 1997-2001 period. The total number of biotechnology employees went from 9,019 in 1997 to 11,897 in 2001, for an overall increase of 32%. Other noted findings include the following:

- In 2001, nearly one-half of all biotech jobs were in two categories: scientific research and technician/engineering.
- Approximately 75% of all biotechnology employees work in the human health sector.
- Quebec and Ontario accounted for 62% of all companies involved in biotechnology during 2001 and 81% of total biotechnology revenues.
- Statistics Canada also stated that companies in Quebec had accounted for 40% of all the jobs in 2001 while Ontario represented 28% and those in British Columbia, 15%.
- Of the 11,897 biotechnology employees, 262 were working in Saskatchewan.
- Of the 375 biotechnology firms operating in Canada, 17 were located in Saskatchewan.

2.4.5.12 University Enrollment Increasing

The March 31, 2003 edition of the *Statistics Canada Daily* reports that university enrollments in fields related to technology, such as engineering had soared in the last three years. Most of the gains have been a direct result of women participating in university education. Other noted findings include the following:

- The total university enrollment in 2000/01 was 861,700, of which 494,700 were women. This represents 57% of the total university population, the highest proportion ever for women.
- The two fields of study with the largest proportion of women in 2000/01 were education, where they represented 72% of total enrollment, and health professions and occupations, at 70%.
- Of the total enrollment in 2000/01, roughly 85%, or 735,300, were undergraduate students, with the remaining 126,300 or 15% being graduate students.
- Enrollment growth at the undergraduate level was driven by two fields of study over the last three years. Undergraduate enrollment increased by 20% in mathematics and physical sciences and 10% in engineering and applied sciences.
- At the graduate level, enrollment also increased in the two aforementioned fields of study.

However, graduate enrollment grew by 14% in social sciences and 12% in agricultural and biological sciences, both of which outpaced graduate enrollment growth in mathematics and physical sciences and in engineering and applied sciences. In fact, of the 8,500 new graduate students since 1997/98, 5,000 were enrolled in social sciences.

2.4.5.13 E-Learning in Canada

The Conference Board of Canada's Education and Learning Group released on April 2nd the findings from a survey that was conducted on E-Learning in Canada. Surveying 570 Conference Board of Canada customers (i.e., organizations), the following summary conclusions were noted:

• Over three-quarters (77%) of respondents' organizations are using e-Learning to some degree;

- The primary uses of e-Learning are for software training, technical skills training and management skills development;
- The primary users of e-Learning are professional and technical employees; clerical, service and support employees; and managers.
- The challenges that e-Learning implementation faces are the cost of developing or purchasing e-Learning solutions; the time required to develop e-Learning; and the need to be convinced of e-Learning's effectiveness as compared to other training delivery modes.

Finally, the survey identified the following benefits of e-Learning:

- the ability to have jut-in-time workplace learning
- employees having greater control as when to take training when compared to other modes of learning and training
- that it improves the effectiveness of workplace learning.

3.0 Summaries of Training Needs Assessment Industry Consultations

3.1 Introduction

Stakeholder consultations were held in March 2003 at the four provincial SIAST campuses [Kelsey (Saskatoon), Palliser (Moose Jaw), Wascana (Regina), and Woodland (Prince Albert)]. Participants at the consultations included representatives from business, industry and professional associations. Some of the invitees to the consultation sessions were unable to attend and presented their views by either submitting written comments or completing a survey questionnaire that had been sent out with the invitation letter. The purpose of the stakeholder consultations was to gather information on future training needs, employment trends, and emerging occupations and skill sets required for these. The information gleaned from the consultations focused on needs specific to each of the four SIAST campus cities, as identified above, as well as province-wide.

The format of the consultations was similar to that of the last two years. With the invitation letter, invited guests were also provided with a copy of the section of last year's report that identified training needs, as well as a status report on the activities that resulted from the section of the SUTNA 2002 report. Invitees were informed that discussions at the meetings would address new or revised training needs for each of the four SIAST campus cities as well as provincially. Invited representatives were encouraged to complete the questionnaires if they were unable to attend the consultation meetings.

Not all invited stakeholders were able to attend the meetings and therefore some industries lacked representation and input. As a result, the findings may not comprehensively identify the needs of <u>all</u> industries in the province.

3.2 Summary of the Findings

The following chart provides a summary of the discussions at the meetings with industry and association representatives. The findings are not necessarily presented in priority order. The check marks in the right hand columns identify the location(s) where the sector–related information was discussed or highlighted as a training need. Some sector discussions focused on provincial needs and are identified as such in the chart. The results are organized by sectors and topic areas. Employment projections, obtained from the *Saskatchewan Economic Demand (SED)* Forecast 2002, are included in the chart for each sector.

Overall, 285 industry representatives were invited to the consultations. Forty-two completed questionnaires were returned from those unable to attend and the information was condensed and incorporated into the chart, along with the written comments received.

Many needs identified throughout the discussions and in the submitted questionnaires were not necessarily training needs but issues dealing with employment - demographics, difficulty in attracting qualified personnel, location, working conditions, and salary. These are employer and industry issues and SIAST, though empathetic, is not in a position to respond or change the situation. Examples of these are:

- Workload and benefits
- Working conditions
- · Retention of staff

- Out-migration
- Aging workforce
- Rural versus urban centers

The representatives at the consultations spoke very highly about SIAST, the programs, the relevancy of the curriculum to meet the skills required in industry, and the willingness to consult widely on all issues relating to the preparation of graduates for work.

| Industry/Sector | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|--|------------|-----------|--------|---------------|-----------|
| AGRICULTURE | | | | | | |
| Jobs in this industry continue to decrease and are project | cted to decline by 9,200 or 15% over the five-year forecas | peri | od 2 | 2000 | -05. | |
| Transitional training for farmers required to help them identify and enhance the many transferable skills they have into a package that is marketable for business and industry. Training for seed cleaners, specialty crops and feed lot operations. Apprenticeship training to suit self-employed farmers (e.g. welding shop on farm). Succession planning education for farmers required. Horticulture and golf course management programs required. | In partnership with Canada-Saskatchewan Career & Employment Services and the regional colleges: Provide change management workshops. Provide PLAR (prior learning assessment and recognition) for transferable skills. Develop non-core courses and workshops. Develop online delivery as well. Note, however, that online delivery is hampered by broadband availability in rural areas. Consider brokering programs (and providing certification) from University of Guelph, Olds College in Alberta, and other institutions. | × | | | | |
| BUSINESS SERVICES | | | | | | |
| Professional business services, which includes advertise increase by 4,700 jobs, for a total increase of 25% over | ing, professional business services and other business ser the 2000-05 forecast period. | vice | s, ex | pec | ted t | 0 |
| Short-term, day seminar customer service training required in all industries. These needs extend across all sectors. | Offer courses and workshops. Examine curriculum of appropriate programs. Consider developing a short credit program in customer service (see Retail Sales & Service sector). | x | | | | |
| Courses in time management, marketing, and supervision are needed for management employees. | Offer training on a cost recovery basis. | х | | | | |

| | Industry/Sector | | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|--|---|--|------------|-----------|--------|---------------|-----------|
| • | Employees who have "leadership skills" rather than purely technical skills are required. | Offer | leadership training workshops. | х | | | | |
| • | Need for different approaches to management training in the public sector. This could become a credit program and should include courses in "strategic management," "management development," "risk management" and "risk evaluation". | emplo delive Cons public levels Cons jurisd | ider developing both basic and advanced administration programs, with certification | x | | | | |
| • | More teleservice customer representatives needed. Training should include an "Internet communications" module. | | nsive work-based and classroom training nues through JobStart/Future Skills. | | | х | | |
| • | Entrepreneurial courses required, with a special focus on people skills. | | courses from Entrepreneurship and Small less program on a cost recovery basis. | х | | | | |
| • | Canadian Financial Planning certification for Credit Union employees. | | e-day workshop continues. Consider and inding training to the certification level. | х | | | | |
| • | Case management skills certification required for those working in insurance field. | Reha distar | ider brokering programs such as certificate in bilitation Benefits Administration, a joint nce education program offered through ca College and the Insurance Institute of da. | x | | | | |

| Industry/Sector | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|---|------------|-----------|--------|---------------|-----------|
| COMMUNITY SERVICES | | | | | | |
| Predictions for employment needs in this sector are simi service occupations remains high. | lar to those in the health sector. The demand for graduat | es fro | om s | ocia | I | |
| Expand Chemical Dependency program to include gambling dependency. | The Chemical Dependency certificate and diploma programs include courses in addictions counselling, intervention, and therapy, as well as training in gambling and Internet issues. | х | | | | |
| Need more corrections and parole officers (200+ in next three years). | SIAST to monitor employment trends for program. | х | | | | |
| Offer more childcare programs throughout province. Consider distance education/flexible training. | Currently SIAST offers Early Childhood Education certificate and diploma programs at three SIAST campuses, as well as through the regional colleges, and some courses through distance education. | X | | | | |
| CONSTRUCTION AND RELATED OCCUPATIONS | | | | | | |
| | al construction is projected to increase by more than 1,200 95. There will be a need to create awareness in the high so | | | | | |
| There is a shortage of skilled journeyperson/ trades people across the province. Access to apprenticeship training an issue. | In addition to pre-employment and apprenticeship programs, SIAST continues to provide training in cabinet making, framing, steel studding and drywall through JobStart/Future Skills, and pre-trade training in some fields. Discuss alternative training and delivery options with Apprenticeship and Trade Certification Commission. | x | | | | |

| Industry/Sector | Impact on SIAST Program Delivery | | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|---|------|-----------|--------|---------------|-----------|
| Industry needs "service technicians" who are cross-trained in several trades. | Currently programming for technicians is trade specific rather than generalized. | | | | | Х |
| More safety and supervisory training required in the curriculum for all the trades, especially in the pre-employment programs. | SIAST working with Department of Labor to consider including core OH&S modules which will be incorporated into all trades programs. | х | | | | |
| Automotive service industry is experiencing rapid changes with the advent of data streaming technology, exotic materials and computerization. | SIAST to work with automotive industry to raise awareness for opportunities and enhance industry image. | | | | | |
| Upgrading of current employees to computerized diagnostic systems also needed. | Promote accessing the CARSYOUTH Web site (aptitude testing). | Х | | | | |
| Need replacement technicians - general purpose, mechanical repairers, partspeople, apprentices and | Examine curriculum to include new technology requirements. | | | | | |
| journeypersons - for large numbers of retirees in next five years. | Deliver specific workshops through contract training with employers. | | | | | |
| 300 road construction labourers required in next three years. | SIAST to monitor employment trends in heavy equipment program over next three years. | х | | | | |
| Mentoring program desired. | Consider introducing a mentoring program. | | | | | |
| HEALTH | | | | | | |
| revised estimates from the SED Forecast of 2000, total e | ed employment in Health Services declined by 2,300 in 20 employment will need to grow by 2,700 over the next four This will be a challenge given the anticipated upcoming v | year | s to | mee | t the | |
| Training in patient-related care required, for | Consider increased offerings. | | | | | |
| registered nurses, licensed practical nurses, and home care/special care aides. | Continue outreach programs. | Х | | | | |
| nome care/special care aldes. | Review career laddering opportunities for nurses – especially LPNs. | | | | | |

| Industry/Sector | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|--|------------|-----------|--------|---------------|-----------|
| Short upgrading courses are required for nurses transferring from acute care facilities to community health, and for immigrant nurses who are missing specific modules required to practice in Saskatchewan. | Consider offering upgrading courses and a course on medical terminology for immigrant nurses. | x | | | | |
| Growing demand for more primary care nurse practitioners across the province, particularly in Prince Albert. | Increase technology-based training; consider increasing distance education offerings. Give employees access close to home communities, to update their education. | х | | | | |
| Need to address new techniques and diagnostic procedures in Health Information Services (HIS) program. HIS sees the need for a clinical research certificate. More classes in ethics, coding classifications, and privacy act are needed. | Examine curriculum of HIS program. Consider brokering the Clinical Research certificate program from Chicago. Facilitate workshops on these topics. | х | | | | |
| Nurse practitioner training required. | SIAST is delivering PLAR workshops and assisting in developing PLAR tools for this profession. | х | | | | |
| Training required for future tele-health call centres. | Monitor tele-health centre development, and resulting occupational needs. | Х | | | | |
| Role of dental assistants and dental hygienists is changing. | Examine changing roles and impact to programs. | x | | | | |
| Vet techs are required for large animal practices in rural areas (serving livestock producers). | Consider two streams (i.e. small animal training and large [livestock] training). | х | | | | |
| According to the Massage Therapists' Association, massage therapy is the fastest growing health profession. | Monitor action with Sask Health. | x | | | | |

| Industry/Sector | Impact on SIAST Program Delivery | | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|---|-------|-----------|--------|---------------|-----------|
| Requesting legislation to regulate the profession. | | | | | | |
| Want to expand the curriculum with a diploma or degree credential, similar to other provinces. | | | | | | |
| Enhancement to mental health training required in the NEPS program. | Ongoing discussions with NEPS partner (University of Saskatchewan). | Х | | | | |
| Require specialized clinical training seminars for rehabilitation worker programs. | Examine curriculum of program. | х | | | | |
| projected decrease from the Saskatchewan Economic D | rease by 1,500, for a total increase of 4% over the 2000-0st Demand (SED) Forecast of 2000, which is due to a downtu Term, more cross-border tourists are anticipated in Saska Stry. | rn in | the | wak | e of | |
| Customer service training required. | Continue to offer JobStart/Future Skills and cost recovery programming in co-operation with STEC. | Х | | | | |
| General tourism training required (ecotourism, adventure tourism). | Continue Ecotourism certificate and Tourism Management diploma programs. | Х | | | | |
| Shortage of cooks, front desk receptionists, food and beverage servers, housekeepers, and fast | Expand the Food and Beverage Service Worker applied certificate, through JobStart/Future Skills. | х | | | | |
| food workers. | Continue working with STEC to offer appropriate programs. | ^ | | | | |
| Food & Nutrition Management diploma program grads have difficulty finding appropriate full-time employment without work experience. | Examine the appropriateness of the curriculum, and length of the program. | х | | | | |

| Industry/Sector | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|--|--|------------|-----------|--------|---------------|-----------|
| LOGGING AND FORESTRY | | | | | | |
| | of 47% in the five-year period 2000-05. There will be a nee trading issues between the United States and Canada and pact on the industry. | | | | |) |
| Variety of training needs, such as mill equipment operators, harvesting equipment operators, forestry technicians, etc. Current forestry employees require certification. | Credentials now offered for Mechanical Harvesting and Conventional Harvesting applied certificates. PLAR is an option for certification. | | | | х | |
| MANUFACTURING | | | | | | |
| offer on-the-job training throughout the industry as well a choices. Employment is projected to rise by 5,300 for a continued diversification of the Saskatchewan economy. | y are the main areas of growth for manufacturing. There was to create awareness in the K-12 system that trades are 17% increase over the five-year forecast period 2000-05, and the five-year forecas | exce | ellen | t car | | |
| Food/Beverage Processing | | | | | | |
| Employment demand is projected to increase by more the five-year period 1999-2004. | nan 1000 individuals, for a total increase of 14% over the | | | | | |
| Meat processing plants continue to provide new jobs in food processing and institutional meat cutting. Meat processing industry changing with new packing regulations and standards for chemical products. Training should include dealing with contaminated | Continue offering institutional meat cutting program. Industry is prepared to seek trade certification status for this program. SIAST has modularized and prepared programs for work-based delivery. | x | | | | X |
| goods. Programs in manufacturing industry should include | Examine curriculum of programs to include content | | | | | |
| curriculum topics on the Kyoto Agreement, the cost of natural gas, and electronic innovations. | on Kyoto issues. | х | | | | |

| Industry/Sector | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|--|------------|-----------|--------|---------------|-----------|
| Metal/Machinery | | 0000 | 0.5 | | , | |
| Employment demand is projected to increase by more tr | nan 2,300 individuals, for a total increase of 37% over the | 2000 | -05 | perio | oa. | |
| Need for more machinists and mechanics in all sectors. | Consider expansion of program. | Х | | | | |
| MINING | | | • | | | |
| Employment in mining is expected to increase by 300 individuals (5% increase) over the 2000-05 period. Employment demand should therefore increase for underground miners, mine service workers and operators, and supervisors (an opportunity for the 80% unemployed people in northern Saskatchewan). | | | | | | |
| Upgrading required for mining labourers to become mining professionals. | Underground Miner program is offered in collaboration with Northlands College. | х | | | | |
| | Program under review to develop specialties. | | | | | |
| OIL AND GAS | | | | | | |
| | increase of 37% over the 2000-05 projection period. Emp mmodity prices, market conditions, technological change, I. | | | | | ts |
| More process operators required in Western Canada. | Along with the Process Operator certificate program, three new Process Operator applied certificates are offered (Levels 1, 2, and 3). | х | | | | |
| PULP AND PAPER | | | | | | |
| Employment demand is projected to increase by 200 job to lower than expected commodity prices. | os, or 4% over the 2000-05 period. This moderate forecast | ed in | crea | ase i | s du | e |
| Industrial mechanics required. | Examine flexible and work-based training. | | | | _ | |
| Instrumentation and electrical training needed. | | | | | Х | |

| Industry/Secto | or | | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|---|---|---|--|------------|-----------|--------|---------------|-----------|
| RETAIL SALES & SERVICE | | | | | | | | |
| Sales and service occupations are new job opportunities in the province. | | | ne-fifth of total job opportunities (or 8,900) and just u a variety of skill levels. | nder | one | -qua | rter | of |
| Certification for a "sales and se certificate is supported. | ervice" applied | | Consider developing a "sales and service" applied certificate. | х | | | | |
| TECHNOLOGY Occupations in this fastest growing occupational area are highly skilled, with an annual average growth rate of 2.8%. Natural and applied sciences, and related occupations are projected to account for 10% (or 4,400) of total job opportunities, with over three-quarters (77%) arising from new economic activity. Sixty-five per cent of new opportunities will occur in skill level A occupations such as analysts, engineers, and programmers. | | | | | | | ch | |
| Motion picture industry training currently met. Skill sets vary signers, construction crews, project managers). | needs are not gnificantly (e.g. set producers, writers, | • | Expand workshop offerings. Considerable work-based training in this field is offered through JobStart/Future Skills. SIAST to continue discussions with SMPIA. | x | | | | |
| Growing need for technicians in telecommunications industry, e frequency technicians. | | | Examine curriculum of some electronics and engineering programs. | | | | | Х |
| Need training in design. CAD/C included in several programs. I design, chassis design, vibration Require mechanical technologi Career laddering from technicia | on testing. sts and assemblers. | | Consider offering modules of CAD/CAM program. A 12-week electronics assembler apprenticeship program is being delivered by industry, through SIAST. | | | | | X |
| desired. Water treatment plant operator wastewater technicians are required. | | • | Continue offering water resources and wastewater programs, and additional cost recovery courses as required by industry. | Х | | | | |

Prince Albert Moose Jaw Saskatoon **Provincial** Industry/Sector Impact on SIAST Program Delivery Regina Information Technology It is anticipated that in three years more than 65% of business would be done online, increasing the need for expertise in information technology (IT). Ten to thirty percent job growth in Saskatoon is expected. Up to 2000 vacancies across the province are expected mostly in project management roles – figures captured in Business Services above. Computer training required in all sectors. Incorporate computer training when programs are revised. Internet/web developers needed in many sectors. Χ New program offered in Web Site Design and Development. **TRANSPORTATION** Transportation and Storage. Growth of 900 jobs in truck transport/pipelines/storage/warehousing industry is projected over the fiveyear forecast period 2000-05 (4% increase). The removal of rail subsidies for grain transportation (which has led to rail line abandonment and transformed the grain handling system in rural areas) will place a greater demand on truck transport and hence on employment in this sector. Younger drivers are needed in the trucking Offer Driver Training program across the province. Χ industry. Provincial shortage of heavy equipment Continue offering Tri-Trades training in Regina mechanics, heavy equipment operators, and truck (heavy equipment mechanics, truck & transport, & transport mechanics. agricultural equipment mechanics). Continue offering Heavy Equipment Operator Χ training as required through the regional colleges. Consider delivering pre-employment or apprenticeship as day release or evening classes, instead of block training. Χ Motor coach operator training is required. Monitor the need. Training required in satellite communications. **Examine curriculum of Truck Driver Training** Χ dispatching, human resource development. program. chemical hauling, and rules and regulations at US

| Industry/Sector | Impact on SIAST Program Delivery | Provincial | Moose Jaw | Regina | Prince Albert | Saskatoon |
|--|---|------------|-----------|--------|---------------|-----------|
| boundaries. | | | | | | |
| Train-the-Trainer for industry programs. | SIAST to share Train-the-Trainer manuals. | Х | | | | |
| OTHER TRAINING NEEDS | | | | | | |
| Entrepreneurship, communication, risk management, and management skills as options to all programs. | | X | | | | |
| Operations management training required. (i.e. computers, economics, people management, customer service). | | x | | | | |
| General science diploma program. | | Х | | | | |
| Grade 12 students are not educationally prepared to enter SIAST programs. | Consider offering a preparatory or bridging program. | х | | | | |
| Bridging programs required for Aboriginal youth to move into apprenticeship and SIAST credit programs. | | Х | | | | |
| Apprenticeship program delivery methods need re- vamping for northern and rural areas. | Electrician Level 1 program delivered online. Continue discussions with Apprenticeship and Trade Certification Commission regarding alternate training and delivery options. | X | | | | |

Sources:

Saskatchewan Urban Training Needs Assessment Report 2002, June 2002 [SIAST Planning, Research and Development Division] Industry training needs consultations, held March 2003, in Saskatoon, Regina, Moose Jaw and Prince Albert Submitted questionnaires and written comments from industry representatives

4.0 Summaries of relevant studies and reports

4.1 Overview of sector partnership reports

The sector partnership program, an initiative of the Department of Saskatchewan Learning, supports industry sectors in implementing partnerships with community stakeholders and training providers. The purpose of the program is to plan and develop human resource strategies to address industry skill shortages in the province. The sector partnership program provides financial assistance to industry sectors in order to improve the province's ability to compete in external markets. Funding is provided by the province's Department of Saskatchewan Learning to implement partnerships with trainers and communities for human resource planning and development of training approaches to meet industry-skilled employment needs.

Currently there are 46 sector studies with 31 industry sectors in the province. The industry sectors are listed below. Many have completed research reports in the past few years and had been summarized in previous SUTNA reports. Those sector partnerships that have been approved in 2002-03 are bolded. Completed reports or preliminary findings relevant to SIAST activities are summarized in this section.

- Aviation Sector
- Apparel and Textile Sector
- Arts and Culture Sector
- Beef/Cattle Feedlot Sector (Saskatchewan Beef Cattle Feedlot, May 2002)
- Commercial Fishing Sector
- Cosmetology/ Beauty Sector
- Early Childhood Care and Education Sector
- Environmental Sector (Northern Saskatchewan Environmental Industry 2002)
- Export Manufacturing Sector
- Film and Video Sector
- Fire/Rescue Service Sector
- Food Processing Sector
- Forestry Sector
- Floriculture Sector
- Health Sector including:
 - Home Care/Special Care Aide Workforce Sector (Home Care/Special Care Aides, July 2002)
 - Mental Health Workforce Sector (Saskatchewan Mental Health, January 2003)
 - Nursing Sector
 - Saskatchewan Association of Health Organizations (SAHO)
- Hunting, Fishing and Tour Guide (Outfitters) Sector
- Information Technology Sector
- Immigrant/Refugee Sector
- Implement Manufacturing Sector
- Low-Rise Residential Construction Sector
- Music and Sound Recording Sector (Music and Sound Recording Industry Phase 2 final report pending
- Occupational Health and Safety Sector (Building Capacity in Occupational Health and Safety - final report pending)
- Plastics Industry Sector (Saskatchewan Plastics, 2002)
- Plumbing and Pipefitting Trades Sector

- Primary Agriculture production Sector (Primary Agriculture Production, January 2003)
- Road Building and Heavy Construction Sector
- Saskatchewan Process Industry Training Network
- Tourism Sector
- Trucking Sector
- Water/Wastewater Systems Operators Sector
- Woodlot/Agroforestry Sector

4.1.1 Saskatchewan Mental Health

In any one year, approximately 220,000 adults and children (one in five persons) in Saskatchewan suffer from a diagnosable mental disorder. Conservative estimates of the yearly direct and indirect costs to the province are a minimum \$500 million.

Recent Trends

- As a result of a perceived stigma, the majority of the province's people with a mental health disorder or problem do not seek out the services of a mental health professional
- Limited resources/programs exist for the support groups: self-help, advocacy, friends/caregivers/families
- A chronic shortage of psychologists and psychiatrists exists in the province
- Significant concerns regarding the quality of mental health services are provided by Saskatchewan family physicians
- There are no advocates for mental health within health districts/authorities, social services, corrections services, or schools

Key Findings Re: Future Training Related to SIAST Training

- In the previous two years, only seven new graduates of the Nursing Education Program of Saskatchewan (NEPS) have registered with the Registered Psychiatric Nursing Association of Saskatchewan (RPNAS)
- Critical limitations of NEPS regarding education and training in mental health are: the curriculum only partially meets the RPNAS standards and competencies, and the clinical training is not adequate
- A greater number of advanced training courses in mental health for Licensed Practical Nurses (LPN's) is recommended
- Enhanced continuing training opportunities and funding for Home Care/Special Care Aides

The executive summary of this report can be accessed at http://www.health.gov.sk.ca/ic sk mhlth sec study es.pdf

4.1.2 Saskatchewan Beef Cattle Feedlot

A potential exists in the province to expand the competitive feedlot industry significantly with increased interest in both value-added activity and diversification.

Key Findings Re: Future Training

- The feedlot workforce supports future training
- Feedlot workers include both management and employees
- There are few specific programs/courses available to train workers
- Untrained employees present safety concerns

Next Steps

- Review current feedlot job functions of feedlot managers/employees through a DACUM process
- Identify unique training needs/opportunities in the feedlot industry for First Nations people
- Inform youth in the high schools about employment opportunities in the cattle industry
- Create a timeline for training

4.1.3 Saskatchewan Plastics

With the support of the Saskatchewan Research Council, the low tech plastics industry's 42 companies, including one that is Aboriginal owned, produce yearly revenues close to \$1 million. Most of these cottage-size companies located in Saskatoon, Regina, and Moose Jaw, each employing fewer than 10 workers, process or fabricate plastic products for local agricultural clients throughout the province or for export to niche markets in the United States. Growth prospects are favourable, mixed with concerns regarding the changing nature of agriculture in the province.

Recent Trends

The Canadian Plastics Industry Association (CPIA) predicts major shortages of skilled labour within its industry over the next eight years

Key Findings Re: Future Training

- Most plastics employees are full-time workers and trained on-the-job.
- When new skills are required, the usual practice is to recruit workers who already have the needed skills
- To adequately utilize the Aboriginal workforce potential, Aboriginal workers require life-skills training

4.1.4 Home Care/Special Care Aides

A labour market analysis of Home Care/Special Care Aides reveals that their role continues to be impacted in several ways:

- An expanding scope of practice with increased importance on the health team
- An increasing pace of work and increased workplace stress
- An expanding work environment including acute and integrated care settings

Key Findings Re: Future Training

- Public sector employers, unlike employers in the private sector, usually require their employees to have certification credentials
- Cost and time are barriers to accessing Home Care/Special Care Aide pre-employment and on-the-job training
- Existing provincial training programs generally meet the needs of both graduates and employers
- Acute care, palliative care, and care for children with special needs are niches that may be filled by Home Care/Special Care Aide training programs
- Need to standardize training programs for pre-employment and on-the-job
- Limited transfer of credit for laddering into other programs such as the LPN

Many employers and employees are unfamiliar with the process of Prior Learning
Assessment and Recognition (PLAR), and indicate that prior learning and on-the-job training
is not being recognized

4.1.5 Primary Agriculture Production

Primary agriculture which includes crops, livestock, poultry, animal products, greenhouse and nursery, Christmas tree and honey farms, is a diverse sector generating sales of \$5 billion annually with approximately 41,590 farms.

Recent Trends

- Advances in agriculture technology and globalization in the marketplace
- Changing demographics in the province
- Higher value crops, as a result of the loss of the Crow Benefit in 1995
- Transition away from export grains and moving towards specialty crops, livestock production and certain types of grain processing
- Larger farms to create ongoing and sustainable financial returns
- Labour force size is in transition

Key Findings Re: Training

- · Coordination of programming and program delivery is lacking
- Shift towards large-scale livestock production requires workers who are skilled in animal agriculture
- Currently no single program meets the training needs of an agribusiness manager
- Agribusiness manager skills are in transition

Recommendations Re: the training of Agribusiness Managers

- Develop alliances with training programs in other provinces
- Establish a centre for agribusiness training and education
- An Aboriginal and Metis agribusiness manager training program to be an integral part of a centre for agribusiness training and education
- Training topics include: people in transition, business operations, business development, and human resources
- Create an awareness program so that agribusiness managers are informed of available training programs

4.1.6 Northern Saskatchewan Environmental Industry

The environment industry is a young, regulated industry with many possible employment and investment opportunities. This industry plays an important role in northern Saskatchewan's economy through investment, job creation, exports, as well as, preservation and conservation of natural resources.

Recent Trends

- The environmental industry is a multidisciplinary, emerging sector, dominated by small to medium companies
- Trained/certified human resources personnel from northern Saskatchewan are currently limited
- Environmental work has become complex

Small businesses will need to network, as the industry expands

Key Findings Re: Future Training

- Training needs to be applicable to First Nations and northern issues
- New skill sets are required for workers as a result of recent legislations, regulations, standards, new technology and the prevalence of many small businesses with a broad range of work activities
- Potential shortages of employees exist in these management areas: waste, water, and biological resource management
- Need for environmental health officers and incentives to keep them in northern Saskatchewan
- More training is required in the handling of wastes and dangerous goods
- For the ecotourism sector, business startup and hospitality training is needed, as well as a knowledge of the industry regulations
- Ongoing co-operation between industry and educational facilities is required
- Training programs in the north, in co-operation with business, will improve the qualifications of northern employees

Recommendations Re: Future Training

- The industry is to develop an enhanced partnership with Aboriginal education facilities and organizations
- Partnerships within the industry need to be improved
- Businesses need to be informed of the types of training programs offered
- The education system needs to be more aware of the career opportunities within the environment industry

4.1.7 Music and Sound Recording Industry

In the 1990's Human Resource Development Canada (HRDC) completed a major study of the cultural industries in Canada. A *Proposal for a National Professional Development Strategy*, 1995 suggested three phases in the development of a game plan for training in the cultural industry:

- Phase One: Conduct an audit of all training that currently exists across Canada
- Phase Two: Identify what is missing from content and geographical perspectives
- Phase Three: Create and deliver new programs to fill those gaps

Key Findings Re: Future Training

- There is an apparent lack of music industry-related educational and training resources in Canada, with an even greater lack identified in Saskatchewan (phase 1)
- Most of the music administration or sound recording courses are available only in the provinces of Ontario and British Columbia (phase 1)
- In 1999, the Saskatchewan Recording Industry Association (SRIA) made the decision to create an online training centre in Saskatchewan for the music industry (phase 1)
- The SRIA has successfully completed the development and testing of two pilot online training programs (phase 2 – final report not yet completed)

4.1.8 Building Capacity in Occupational Health and Safety

In October 2002 the Building Capacity in Occupational Health and Safety (OHS) Advisory Group was organized to reduce risk, injury, and illness in Saskatchewan workplaces. The OHS Advisory Group's purpose is to advise on the development and delivery of education and training opportunities as well as advise on human resource development. The group also facilitates the collaboration, development, and delivery of OHS learning through these formats:

- Needs assessment
- Curriculum components
- Credit transferability and career laddering
- Resource options
- Delivery alternatives

In the winter of 2002, Innovation Consulting Group and Insightrix, the online service bureau of Innovation Consulting Group, with the direction and support of the Building Capacity in OHS Advisory Group conducted a needs assessment study targeting these three audiences:

- OHS practitioners all current students and graduates of the University OHS Certificate Program, those who attended OHS seminars, and/or practitioners with a Canadian Registered Safety Professional (CRSP) designation
- Employers categorized by organization size, location, and industry sector
- Occupational Health Committee (OHC0 co-chairs categorized by employee/employer, organization size, location, and industry sector

Preliminary Findings from First Part of Study (report not yet completed)

- OHS practitioners, individuals with the CRSP designation, and OHS Certificate students/graduates are very interested in attaining academically credentialed education and training
- The majority of individuals with the CRSP designation and OHS Certificate students/graduates would like to access online education and training
- Lack of an OHS career pathway is an obstacle to the development of the OHS practice
- A basic entry-level applied OHS certificate as the first step on the OHS career ladder has strong support
- Employers rank the development of an entry level OHS certificate as a top priority
- Employers support their OHS practitioners who wish to further their educational qualifications
- Employers want more customized training available in order to access specialized and advanced expertise in several OHS fields
- Introduction of a prior learning assessment and recognition (PLAR) system into OHS practice is strongly supported
- The OHS human resource system needs to work in a coordinated manner in order that employers, safety associations, and academic institutions do not develop multiple, overlapping credentials and programs

4.2 Summaries of SIAST needs assessment studies

The SIAST program, planning and development department conducted the following needs assessment studies to research the potential demand for new programs or major revisions to existing programs.

4.2.1 Health Sciences Preparatory Program

A needs assessment was conducted to determine the need and merit of a formalized approach to providing a preparation program for students interested in applying to health sciences programs.

The targeted group for this program would be the Aboriginal labour force. Currently, Aboriginal people represent approximately two percent of the work force employed in health districts. There is validation that a relationship exists between preparatory programs and student success. The results of the study indicate the need for improving the success results for First Nations and Metis students.

Conclusion

- The research validated the need for a preparatory program for First Nations and particularly for students from the northern part of the province.
- Programming for northern and First Nations students should continue to occur through articulation and customization of different programs.
- Urban campuses must establish similar types of programs in the health science field.
- Few of the programs in health sciences meet the participation goals for Aboriginal students and this is an opportunity for SIAST to validate its commitment to education equity.
- Consultation with the north should occur.

4.2.2 Dental Assistant

In April 2002 a labour market survey was conducted to determine if the dental assistant program capacity should be increased above the 60 current seats.

The survey was sent to 325 dentists in the province and there was a response rate of fifty percent. The results of the survey indicate that vacancy positions exist in both the rural and urban areas, with a higher need identified with city employers. It is difficult to recruit employees since 25% of respondents indicated dental assistants are leaving the province. It is also difficult to recruit to the smaller rural communities. Sixty-three percent of respondents anticipate the employment trend for dental assistants will increase. In the next five years the 300 trained dental assistants will be an inadequate number to meet the need.

Conclusion

- Primary research indicates a shortage of dental assistants.
- There is a need to increase program seating for the next few years with continuous monitoring of the employment situation.
- There is a need to better prepare dental assistants to also work as office managers.

4.2.3 Dental Hygiene

In May/June 2002, a labour market survey was sent out to determine if the Dental Hygiene Program capacity should be increased from the current twenty-four seats. The survey was sent to 325 Saskatchewan dentists, with a response rate of forty-seven percent.

The dental hygiene program was implemented in 1979 and until 1986, the seat capacity each year ranged between ten to twelve students. The new one year program was not direct entry and was designed to train the graduates of the dental therapist program to work in private practice as dental hygienists. In 1991, a six-month bridging program was established to prepare graduates of the dental assisting program for entry to the dental hygiene program.

In 1987 the Saskatchewan Health Dental Plan was abolished and 411 dental therapists were unemployed. The dental therapist program at SIAST was discontinued. To re-train the unemployed dental therapists, the seat capacity in the one year dental hygiene program was increased to 24. The dental assisting program continued.

In 1994 a two-year direct entry Dental Hygiene program was established with a seat capacity of twenty-four students.

Conclusion

- A total of thirty-three percent of respondents reported that they are having difficulty recruiting dental hygienists.
- Sixty-seven percent of respondents anticipate the employment trend for dental hygienists will increase.
- Secondary research indicated SIAST dental hygiene graduates are employed in training related jobs (80% employed in full-time positions Graduate Employment Survey 2001).
- SIAST has the potential to graduate 120 hygienists over the next five years. Assuming a low
 or non-existent out-of-province migration, the number of graduates will be inadequate to
 meet respondents' requirements, let alone Saskatchewan employers.

4.3 Summaries of other reports

4.3.1 Saskatchewan Immigrant and Refugee Settlement Needs and Retention Study

Meeting Needs and Making Connections describes the two major challenges facing governments, service providers, and communities in Saskatchewan: finding better ways of addressing the service and support needs of Saskatchewan's immigrants and refugees; and working more closely to address issues, co-ordinate services, and incorporate newcomers into the social and economic mosaic of Saskatchewan.

Key Findings Re: Future Training

- The majority of immigrants and refugees are not receiving the education and training required to improve their career prospects
- 'Better career opportunities' is the most significant factor to improving settlement and retention of immigrants and refugees in Saskatchewan
- Opportunities to improve their language skills are required by immigrants and refugees seeking to advance their employment and career prospects
- Some individuals and families require support services including housing, transportation, counseling and childcare

- Flexible and client-centered program and service delivery models required
- Successful settlement and retention will occur only in the context of a 'welcoming community'

Recommendations Re: Future Training

- Provide more opportunities to improve language skills
- Improve access to education and training

For more information on the study, access the Internet link at http://www.graa.gov.sk.ca/Immigrant Needs.pdf

4.3.2 Saskatchewan Auto Dealers' Association

The Saskatchewan Auto Dealers' Association will soon undertake a labour market study in the province. The 158 automotive dealers in Saskatchewan will be surveyed to determine their employment requirements for the next five years. The survey has not yet been finalized or sent to the dealers but the questions will deal with:

- the ages of the present workforce
- the variety of current positions in the dealership
- anticipated retirements
- retention of current employees
- salaries, benefits and classifications of the employees
- emerging trends in industry
- future employment needs to address the shortfall of retirements; to address continuing vacant positions; and to address anticipated new positions and employees
- new technology and equipment requirements

For further information about the status of the survey and the report, contact Vera Hoffert, at whoffert@saskautodealers.com

4.3.3 Saskatchewan Road Building and Heavy Construction Association

The Saskatchewan Road Building and Heavy Construction Association will soon undertake a labour market study in the province. The members of the association will be surveyed to determine their current work situations. Because of the nature of the industry, the survey will commence in May and run until November. Questions in the anticipated survey will include:

- Employment issues regarding:
 - o Full- and part-time employment
 - Gender
 - o Difficulty in hiring, training
 - Work capacity
- Industry issues for example:
 - Emerging trends
 - o Contract and tendering processes and issues related to these
 - General membership issues

For further information about the status of the survey and the report, contact Val Jakubowski, Executive Administrator at rb10@sasktel.net

4.3.4 Independent Business Study

The Canadian Federation of Independent Business (CFIB) has recently released a labour availability report entitled: *Labour Pains: Results of CFIB Surveys on Labour Availability*, April 2003.

Recent Trends

- The downside of a growing economy for the last decade has been persistent labour shortages for small and medium-sized enterprises (SME's)
- Statistics Canada reports that by 2011 there will be potential shortages of workers in certain occupations
- A CFIB survey of its membership in 2002 showed that 265,000 full-time jobs were vacant across Canada due to the lack of suitable candidates
- Towards the end of 2002, one in two businesses (49.6 per cent) indicated they were concerned with a shortage of qualified labour in 2002
- Three out of four small firms have hired youth (young people between ages 15 and 24), especially for employment in agriculture, hospitality, and manufacturing. Several other firms reported hiring seniors, aboriginal workers, new immigrants, or people with disabilities
- Twenty-nine per cent of Saskatchewan firms surveyed indicated that they expected to increase their workforce in the near future
- Six out of every ten Saskatchewan business owners anticipate that it will become harder to find employees in the next three years

Key Findings Re: Future Training

- Training is part of the answer to the shortage of labour. Firms provide training to their employees for several reasons: to upgrade their skills in line with the job's requirements, to teach them new skills in order to take on more responsibilities, and to enable them to use new technologies
- Two-thirds of businesses want to increase their participation in co-op/apprenticeship programs
- More than half of the businesses see improving their communication with the education community as part of the solution toward reducing the shortage of labour

Conclusion

There is no single solution to the shortage of labour, and no single key player

The full report is available on the CFIB website: www.cfib.ca

| January | 20 | 03 |
|---------|----|----|
| | | |

RE: BUSINESS AND INDUSTRY TRAINING NEEDS

We invite your organization to participate in the important process of training people to suit your needs for qualified, skilled employees.

Participants will address changing or emerging training needs. A 2002 Provincial Training Needs Summary is attached for your reference.

| Join u | s: | | | |
|--------|-----------------------------|--|--|--|
| | DATE: TIME: LOCATION: | | | |
| | | | | |

Please note that the questions on the enclosed SIAST Training Needs Questionnaire will form the basis for discussion at the upcoming meeting. If a representative of your organization is unable to attend, please complete and return the questionnaire at your earliest opportunity.

Your input is vital to determining what training best meets your productivity and profit goals. Confirm your attendance to Jackie Cates by **March 5** at cates@siast.sk.ca, or call Jackie at 933-6518.

| Barb Heise, Director Skills Initiatives | Gerlinde Sarkar, Director Planning, Research & Development |
|--|--|

List of Invited Guests to Focus Group Sessions - March 2003

Addictions Services Adventure Printing Agpro Grain Ag-West Biotech Inc

Apparel & Textile Association of Sask. Alzheimer Society of Sask. Inc

Apprenticeship & Trade Certification Commission Aramark Canada Ltd.

ASL Paving Association of Consulting Engineers of Saskatchewan

Atco Frontec Corporation Aztex Construction Bee Line Welding Bentall Retail Sales Bergen's Autobody & Collision Centre Ltd. **BICC Phillips Inc** Big Horn Transport Ltd. Bode Implements Ltd.

Bombardier Aerospace Brandt Industries (Turf Equipment Division)

Business Improvement District C & S Construction C. Duncan Construction Ltd. Cameco Corporation

CanaDay's Apparel Ltd. Canadian Federation of Independent Business

Canadian Imperial Bank of Commerce Canadian Light Source Canadian Pacific Railway Cardinal Construction Co Ltd.

Cargill Ltd. Caribou Auto Body Carrier Forest Products Case Corporation **CGI Information Systems** Challenger Geomatics Chillers Brew Pub & Restaurant City of Moose Jaw

City of Prince Albert City of Regina

City of Saskatoon Cogema Resources Inc. Continental Construction Ltd Co-op Upgrader

Consumers' Co-operative Refineries Corrections Service Canada

Regional Training College Credit Union Central of Saskatchewan Crestline Coach Ltd. Crown Life Insurance Co

CTK Plastics Ltd. **Custom Software Solutions** Danka Canada Inc. Degelman Industries Ltd.

Dental Surgeons of Saskatchewan DirecTel

Doepker Industries East Side Dental Centre

EDS Canada Inc. Ecotourism Society of Saskatchewan **Environment Canada** Extendicare Factory 53 Designs Federated Co-op Federation of Saskatchewan Indian Nations Fifth Avenue Collection Flexi-Coil Ltd. **Focal Point Computers**

Forestry Training Sub-committee Friends of the PA Lodge Inc.

Frontier Peterbilt Sales Ltd. Gates & Company

Gatx Rail Canada Corp GDS & Associates Systems Ltd.

GE Noren & Partners General Cable

Guaranteed Refrigeration Service Gilroy Homes Inc.

Heartland Agro Services Ltd. **Heartland Livestock**

Heritage Inn Hitachi Canada Industries Ltd. Hotels Association of Saskatchewan **Houghton Boston Printers**

House of Concord **IBM**

IMC Kalium Canada Impact Printers International Road Dynamics Intrex OnLine Services

IPSCO Inc. Ironworkers Association Local 771 ISM Johns Nursery & Market Garden Ltd. List of Invited Guests to Focus Group Sessions - March 2003

Kelly Services Kindersley Transport Ltd

KPMG Kramer Ltd.

Labatt Breweries SaskLaw Society of SaskatchewanLeipert Financial GroupLydale Construction Co LtdMagna Ford EngineeringManpower Temporary Services

MarketLinc MDS Laboratory

Mechanical Contractors Association of Saskatchewan Mid Con Engineering

Minds Eye Pictures Mineral Sector Steering Committee

Mitchell's Gourmet Foods Mnemonic Enterprises

Moose Jaw – Thunder Creek Health District Moose Jaw Arts in Motion

Moose Jaw Arts in Motion

Moose Jaw Asphalt Ltd.

Moose Jaw Arts in Motion

Moose Jaw Chamber of Commerce

Moose Jaw Construction AssociationMoose Jaw Cooperative Ltd.Moose Jaw Credit UnionMoose Jaw Real Estate Board

Moose Jaw Regional Economic Development Authority Moose Jaw Sash & Door

Moose Jaw Toyota Morris Industries

National Refrigeration and Heating North Saskatoon Business Association

Northern Lights Casino

Northern Resource Trucking

Nu-Fab Building Products Ltd.

Off The Wall Productions

PA Chamber of Commerce Business Opportunities PA Home Based Business Association

Partners in Motion Inc. Parts & Service Managers Association c/o Acura

Paul Dojack Youth Centre PCL Construction Mgmt Inc

PFRA Agriculture Canada Philom Bios

Pinegrove Correctional Centre Polar Refrigeration Service

Potash Corp of Saskatchewan Prairie Implement Manufacturers Association

Prairie Machine & Parts

Prince Albert Chamber of Commerce

Prince Albert Construction Association

Prince Albert Correctional Centre

Prince Albert Credit Union

Prince Albert Grand Council

Prince Albert Health District Prince Albert Inn

Prince Albert Regional Economic Development Authority Provincial Exporters Association

Raider Industries Ram Management

Ranch Ehrlo Society RCMP

Redhead Equipment Ltd. Redhead Equipment Mack Division Regina Chamber of Commerce Regina Daycare Association

Regina Emergency Medical Services Regina Health District

Regina Regional Economic Development Authority Road Builders and Heavy Construction Association of

Sask.

Royal Bank of Canada Sask Forestry Association

Sask Housing Corporation Sask Steel Fabricators & Erectors Association Inc.

Saskatchewan Agriculture Saskatchewan Agriculture and Food Saskatchewan Applied Science Technologists and Saskatchewan Association of Architects

Technicians

Saskatchewan Association of Automotive Repairers

Saskatchewan Association of Child Care Homes

Saskatchewan Association of Health Organizations Saskatchewan Association of Licensed Practical Nurses

Saskatchewan Association of Recreation Professionals Saskatchewan Association of Rural Municipalities

Saskatchewan Association of Veterinary Technologists Saskatchewan Auto Body Association

Saskatchewan Auto Dealers Association Saskatchewan Aviation Council

Saskatchewan Call Centre Association
Saskatchewan Chamber of Commerce
Saskatchewan College of Physical Therapists
Saskatchewan Construction Association

List of Invited Guests to Focus Group Sessions - March 2003

Saskatchewan Council of Independent Forest Industries Saskatchewan Day Care Directors Association Saskatchewan Dental Assistants' Association Saskatchewan Dental Hygienist Association

Saskatchewan Dietetic Association Saskatchewan Early Childhood Association

Saskatchewan Emergency Medical Services Assoc. Saskatchewan Environment and Resource Management

Saskatchewan Film & Video Development Corporation Saskatchewan Food Processors Association

Saskatchewan Gaming Corporation Saskatchewan Government Insurance

Saskatchewan Graphic Arts Industries Association Saskatchewan Health Records Association Saskatchewan Home Based Business Association

Saskatchewan Highways and Transportation Saskatchewan Home Builders Association Inc Saskatchewan Industry & Resources

Saskatchewan Justice - Corrections Division Saskatchewan Labour Force Development Board

Saskatchewan Meat Processors Association Saskatchewan Mining Association Saskatchewan Motion Picture Association Saskatchewan Outfitters Association Saskatchewan Paramedic Association Saskatchewan Pharmaceutical Association Saskatchewan Physiotherapy Association Saskatchewan Potash Producers Association Saskatchewan Psychiatric Nurses Association Saskatchewan Registered Nurses Association

Saskatchewan Research Council Saskatchewan Society of Nutrition Management

Saskatchewan Society of Occupational Therapists Saskatchewan Tourism Education Council Saskatchewan Trade & Export Partnership Saskatchewan Transportation Company Saskatchewan Trucking Association Saskatchewan Veterinary Medical Association

Saskatchewan Water and Wastewater Association Saskatchewan Water Corp

Saskatchewan Wheat Pool Saskatchewan Wildlife Federation

Saskatchewan Women in Trades & Technology Saskatoon Air Services Group

Saskatoon Chamber of Commerce Saskatoon Construction Association

Saskatoon District Health Saskatoon Hyundai

Saskatoon Metal Manufacturing Saskatoon Regional Economic Development Authority

Saskatoon Tribal Council SaskCan Pulse Trading Inc SaskEnergy Saskferco Products Inc.

Sasknative Economic Development Corp SaskPower

SaskTel Science Applications International Corporation

SED Systems Inc Sherwood Co-op Sherwood Credit Union Simpson Seeds

Sixth Ave Hair and Beyond South Central Community Futures Development

Corporation

Staples Call Centre Supreme Office Products Ltd. Sweeney Electric Ltd Sweep Rite Manufacturing

Thunder Creek Rehabilitation Association Temple Gardens Mineral Spa Inc

Tourism Prince Albert Tourism Moose Jaw Tourism Regina Tourism Saskatchewan Tourism Saskatoon TransCanada Pipeline Ltd.

Transwest Air Tricom

Tunnels of Moose Jaw Wallace Construction Wapawekka Lumber Ltd. Wavecom Electronics Westcan Bulk Transport Western Business Machines Western Canada Beef Packers Western Economic Diversification

Westrum Lumber Weyerhaeuser Canada

XL Beef Women Entrepreneurs of Saskatchewan

Yanke Group of Companies Yvette Moore Fine Art Gallery Appendix B



Return to: SIAST Admin Offices 400 – 119 4th Ave South Saskatoon SK S7K 5X2 ATTENTION: Jackie Cates Or Fax to Jackie at 933-5988

SIAST TRAINING NEEDS QUESTIONNAIRE 2003

| What indu | stry or sector do you represent? | | | - | _ | |
|-----------------------|---|---------------|-----------------|----------|--------------|---|
| Approxima | ately how many employees do you repres | sent: | | | | |
| as a repre | sentative of your business? | | | | _ | |
| as a repre | sentative of the sector? | | | | _ | |
| Roughly d | efine the geographic area that you serve | by sele | ecting o | ne of th | e following: | |
| | City (please specify) | | | | _ | |
| | Region (please specify) | | | | _ | |
| | Province | | | | | |
| Do you ha | ve difficulty hiring <i>qualified</i> staff? | Yes | | No | | |
| IF YES: For what s | specific occupations: How many could yo | ou hire | in 1 ye | ar: in 3 | years: | |
| | | _ | | _ | | _ |
| | | _ | | _ | | |
| Why migh | t it be difficult to hire staff? Working conditions are considered unat Wages are considered too low There are not enough trained people | - tractive | | | | |

Appendix C

| | Other potential reasons (please elaborate) |
|---------------------|--|
| What othe industry? | r major barriers impact on the recruitment and retention of staff in y |
| What are t | he major trends (i.e. new technology, etc.) affecting your industry? |
| What are t | he major challenges that will affect your sector over the next 3 yea |
| What spec | eific training challenges will your industry encounter over the next 3 |
| | |

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