

Introduction

There are 14 local two-year colleges that compete with Harper College's Maintenance Technology program. Included in this report is a list of competitor colleges that offer a similar program. In addition, local, state, and national employment projections and wage data for related positions are provided. The list of competitor colleges within a 50 mile radius was obtained through the IPEDS – COOL website (http://www.nces.ed.gov/ipeds/cool) and college-specific program information was obtained from each identified college's website.

 Table 1: Maintenance Technology Competitor Colleges (within 50 mile radius)

Major Competitor	Length of Program	Credit hour
wajor Competitor	AAS – Manufacturing Technology:	Credit nour
Richard J. Daley College (City College of Chicago) – Chicago, IL	Maintenance Mechanic, credits N/A. Certificate – Manufacturing Technology: Maintenance Mechanic, credits N/A.	\$72/credit; \$189.95/credit (out-of-district)
Wilbur Wright College (City	Certificate – Building Energy	\$72/credit; \$189.95/credit
College of Chicago) – Chicago, IL	Technologies, 21 credits.	(out-of-district)
College of DuPage – Glen Ellyn, IL	AAS – Facility Management, 64 credits. AAS – Manufacturing Technology, 64 credits. Certificate – Manufacturing Technology, 34 credits. Certificate – Facility Management Technician, 18 credits. Certificate – Facility Management General, 15 credits.	\$103/credit; \$292/credit (out-of-district)
College of Lake County – Grayslake, IL	Certificate – Welding, 35-38 credits. Certificate – Gas Tungsten Arc Welding, 18-20 credits. Certificate – Shielded Metal Arc Welding, 18-20 credits. Certificate – Gas Metal Arc Welding, 15-17 credits.	\$90/credit; \$215/credit (out-of-district)
Elgin Community College – Elgin, IL	AAS – Welding Fabrication Technology, 60 credits. Certificate – Welding, 33 credits. Basic Certificate – Welding, 16 credits.	\$91/credit; \$359.30/credit (out-of-district)
Joliet Junior College – Joliet, IL	Certificate – Industrial Welding Technology, 30 credits.	\$76/credit; \$232.77/credit (out-of-district)
Kishwaukee College – Malta, IL	Certificate – Welding Technology, 15 credits. Certificate – Building Construction Technology, 13 credits.	\$75/credit; \$261.49/credit (out-of-district)
McHenry Community College – Crystal Lake, IL	AAS – Manufacturing Management, 63 credits. Certificate – Manufacturing Supervision, 26 credits.	\$80/credit; \$277.58/credit (out-of-district)

N/A=Not Available

Table 1: Continued

Major Competitor	Length of Program	Credit hour
Moraine Valley Community College – Palos Hills, IL	Certificate – Advanced Welding, 33 credits. Certificate – Combination Welding, 26 credits. Certificate – Pipe Welding, 18 credits. Certificate – Multi-Purpose Welding, 9 credits. Certificate – Shielded Metal Arc Welding, 9 credits. Certificate – Individualized Welding, 8 credits.	\$72/credit; \$204/credit (out-of-district)
Oakton Community College – Des Plaines, IL	AAS – Facilities Energy Systems Technology, 60 credits. AAS – Facilities Management, 60 credits. Certificate – Facilities Management, 32 credits. Certificate – Facilities Energy Systems Technology, 31 credits.	\$84.60/credit; \$236.46/credit (out-of-district)
Prairie State College – Chicago Heights, IL	Certificate – Welder Apprentice, 34 credits.	\$87/credit; \$244/credit (out-of-district)
South Suburban College – South Holland, IL	Certificate – Home Maintenance, 18 credits. Certificate – Building Rehabilitation, 15 credits.	\$103.75/credit; \$281.75/credit (out-of-district)
Triton College – River Grove, IL	AAS – Welding and Fabrication, 65 credits. Certificate – Welding and Fabrication, 28-29 credits. Certificate – MIG & TIG Welding, 16 credits.	\$61/credit; \$179.80/credit (out-of-district)
Waubonsee Community College – Sugar Grove, IL	AAS – Welding, 64 credits. Certificate – Advanced Welding, 37 credits. Certificate – Facility Service Technology, 30 credits. Certificate – Beginning Welding, 16 credits.	\$75/credit; \$224.61/credit (out-of-district)

Table 2: Maintenance Technology Employment Projections

Chicago PMSA*		Employment		Employm	Employment Change		Average Yearly Job Open	
							Due to	Average
SOC	Occupational	2004	2014	2004	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
	First-Line Supervisors/Managers of							
37-1011	Housekeeping and Janitorial Workers	6,445	7,571	1,125	17.46	113	157	265
47-2031	Carpenters	31,546	35,846	4,300	13,63	430	514	944
47-2111	Electricians	18,647	21,546	2,899	15.55	290	369	659
47-2152	Plumbers, Pipefitters, and Steamfitters	13,558	16,247	2,689	19.83	269	312	581
49-9042	General Maintenance and Repair Workers	34,001	36,782	2,781	8.18	278	653	931
49-9099	Installation, Maintenance, and Repair Workers, All Other	4,239	4,479	240	5.65	24	96	120
51-4121	Welders, Cutters, Solderers, and Brazers	7,943	8,020	77	0.97	8	224	232

^{*}Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

Cook County*		Employment		Employm	ent Change	Average Yearly Job Op		Openings
							Due to	Average
SOC	Occupational	2004	2014	2004	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
	First-Line Supervisors/Managers of							
37-1011	Housekeeping and	4,587	5,362	775	16.89	77	108	185
	Janitorial Workers							
47-2031	Carpenters	19,490	22,224	2,734	14.03	273	318	591
47-2111	Electricians	10,830	12,691	1,861	17.18	186	214	400
47-2152	Plumbers, Pipefitters, and	7,858	9,568	1,710	21.76	171	181	352
47-2132	Steamfitters	7,838	9,308	1,710	21.70	1/1	161	332
49-9042	General Maintenance and	22.640	25,638	1,999	8.45	200	454	651
49-9042	Repair Workers	23,640	23,038	1,999	8.43	200	434	654
49-9099	Installation, Maintenance, and	2,731	2,891	160	5.87	16	62	78
49-9099	Repair Workers, All Other	2,731	2,891	100	3.87	10	02	78
51-4121	Welders, Cutters, Solderers,	5,002	5,047	45	0.91	5	141	146
31-4121	and Brazers	5,002	3,047	43	0.91	3	141	140

^{*}Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

DuPage County*		Employment		Employm	ent Change	Average Yearly Job (Openings
							Due to	Average
SOC	Occupational	2004	2014	2004	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
	First-Line Supervisors/Managers of							_
37-1011	Housekeeping and	958	1,186	228	23.82	23	23	46
	Janitorial Workers							
47-2031	Carpenters	5,133	5,963	830	16.18	83	84	167
47-2111	Electricians	3,427	4,061	634	18.50	63	68	131
47-2152	Plumbers, Pipefitters, and	2,528	3,090	562	22.24	56	58	114
47-2132	Steamfitters	2,326	3,090	302	22.24	30	36	114
49-9042	General Maintenance and	5,231	5,806	575	10.99	57	100	157
49-9042	Repair Workers	3,231	3,800	373	10.99	37	100	137
49-9099	Installation, Maintenance, and	807	866	59	7.32	6	18	24
49-9099	Repair Workers, All Other	807	800	39	1.32	Ü	10	24
51-4121	Welders, Cutters, Solderers,	1,393	1,423	30	2.17	3	39	42
31-4121	and Brazers	1,393	1,423	30	2.17	3	39	42

^{*}Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

Lake County*		Employment		Employm	ent Change	Average Yearly Job O		Openings
							Due to	Average
SOC	Occupational	2004	2014	2004	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
	First-Line Supervisors/Managers of							
37-1011	Housekeeping and	602	728	126	20.99	13	14	27
	Janitorial Workers							
47-2031	Carpenters	2,994	3,408	413	13.80	41	49	90
47-2111	Electricians	1,647	1,895	248	15.05	25	33	58
47-2152	Plumbers, Pipefitters, and	1,215	1,450	235	19.32	23	28	51
47-2132	Steamfitters	1,213	1,430	233	19.32	23	20	31
49-9042	General Maintenance and	3,137	3,379	242	7.70	24	60	84
49-9042	Repair Workers	3,137	3,319	242	7.70	24	00	04
49-9099	Installation, Maintenance, and	375	401	26	6.92	3	9	12
47-7077	Repair Workers, All Other	373	401	20	0.92	3	9	12
51-4121	Welders, Cutters, Solderers,	610	626	16	2.60	2	17	19
J1-4121 	and Brazers	010	020	10	2.00	2	1 /	19

^{*}Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

McHenry County*		Employment		Employme	Employment Change		Average Yearly Job	
							Due to	Average
SOC	Occupational	2004	2014	2004 -	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
	First-Line Supervisors/Managers of							
37-1011	Housekeeping and Janitorial Workers	162	177	15	9.41	2	4	6
47-2031	Carpenters	1,627	1,871	243	14.96	24	27	51
47-2111	Electricians	1,032	1,187	155	14.99	15	20	35
47-2152	Plumbers, Pipefitters, and Steamfitters	750	896	146	19.48	15	17	32
49-9042	General Maintenance and Repair Workers	965	990	25	2.59	2	19	21
49-9099	Installation, Maintenance, and Repair Workers, All Other	155	161	6	4.00	1	3	4
51-4121	Welders, Cutters, Solderers, and Brazers	375	365	-10	-2.67	-1	11	10

^{*}Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

Statewide*		Employ	Employment Emp		ent Change	Average	Yearly Job	Openings
							Due to	Average
SOC	Occupation	2004	2014	2004	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
	First-Line Supervisors/Managers of							
37-1011	Housekeeping and	10,091	11,730	1,639	16.24	164	238	402
	Janitorial Workers							
47-2031	Carpenters	51,126	56,741	5,615	10.98	562	832	1,394
47-2111	Electricians	29,344	32,982	3,638	12.40	364	580	944
47-2152	Plumbers, Pipefitters, and	20,883	24,314	3,431	16.43	343	480	823
47-2132	Steamfitters	20,863	24,314	3,431	10.43	343	460	623
49-9042	General Maintenance and	54,022	57,919	3,897	7.21	390	1,037	1,427
47-7042	Repair Workers	34,022	37,919	3,071	1.21	390	1,037	1,427
49-9099	Installation, Maintenance, and	6,656	6,992	336	5.05	34	151	185
47-7077	Repair Workers, All Other	0,030	0,992	330	3.03	34	131	163
51-4121	Welders, Cutters, Solderers,	14,401	14,545	144	1.00	14	407	421
J1-4121	and Brazers	14,401	14,343	144	1.00	14	407	421

^{*}Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

National**		Emplo	yment	Employm	ent Change	Average Yearly Job Opening		Openings
							Due to	Average
SOC	Occupational	2004	2014	2004	- 2014	Due to	Replace-	Yearly
CODE	Title	Number	Number	Change	% Change	New	ments	Total***
	First-Line Supervisors/Managers of							
37-1011	Housekeeping and	235,851	280,644	44,793	19.0	N/A	N/A	10,000
	Janitorial Workers							
47-2031	Carpenters	1,349,034	1,534,617	185,583	13.8	N/A	N/A	41,000
47-2111	Electricians	656,227	733,697	77,470	11.8	N/A	N/A	21,000
47-2152	Plumbers, Pipefitters, and Steamfitters	498,555	576,612	78,057	15.6	N/A	N/A	19,000
49-9042	General Maintenance and Repair Workers	1,331,680	1,533,473	201,793	15.2	N/A	N/A	46,000
49-9099	Installation, Maintenance, and Repair Workers, All Other	177,844	197,479	19,635	11.0	N/A	N/A	6,000
51-4121	Welders, Cutters, Solderers, and Brazers	376,961	395,869	18,908	5.0	N/A	N/A	13,000

^{**}Employment projections are from http://www.bls.gov
***Estimate of average yearly job opening due to new jobs and net replacement needs.

Table 3: Maintenance Technology Wage Data

Chicago PMSA*							
		Entry Wage		Media	n Wage	Experienced Wage	
SOC	Occupational						
CODE	Title	Hourly	Annual	Hourly	Annual	Hourly	Annual
	First-Line Supervisors/Managers						
37-1011	of Housekeeping and	\$11.31	\$23,537	\$16.62	\$34,579	\$21.41	\$44,537
	Janitorial Workers						
47-2031	Carpenters	\$15.51	\$32,274	\$27.22	\$56,615	\$30.84	\$64,154
47-2111	Electricians	\$20.19	\$42,002	\$29.18	\$60,692	\$33.01	\$68,659
47-2152	Plumbers, Pipefitters, and	\$17.49	\$36,368	\$32.76	\$68,138	\$36.60	\$76,139
47-2132	Steamfitters	ψ17. 4 9	Ψ30,300	Φ32.70	\$00,150	φ30.00	\$70,139
49-9042	General Maintenance and	\$12.07	\$25,104	\$18.85	\$39,219	\$23.01	\$47,854
T)-70T2	Repair Workers	Ψ12.07	Ψ23,104	Ψ10.05	Ψ37,217	Ψ23.01	Ψ+7,05+
49-9099	Installation, Maintenance, and	\$10.56	\$21,955	\$18.54	\$38,547	\$23.41	\$48,679
47 7077	Repair Workers, All Other	φ10.50	Ψ21,733	Ψ10.5-	Ψ30,3+1	Ψ23.41	Ψ+0,072
51-4121	Welders, Cutters, Solderers,	\$11.71	\$24,359	\$16.33	\$33,974	\$20.06	\$41,726
J1 7 121	and Brazers	Ψ11./1	Ψ24,337	Ψ10.55	Ψ55,774	Ψ20.00	Ψ-1,720

^{*}State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2006)

Table 3: Continued

Cook County*							
		Entry Wage		Media	n Wage	Experienced Wage	
SOC	Occupational						
CODE	Title	Hourly	Annual	Hourly	Annual	Hourly	Annual
	First-Line Supervisors/Managers						
37-1011	of Housekeeping and	\$11.93	\$24,812	\$16.99	\$35,329	\$21.54	\$44,800
	Janitorial Workers						
47-2031	Carpenters	\$15.77	\$32,788	\$26.81	\$55,755	\$30.77	\$64,012
47-2111	Electricians	\$21.07	\$43,829	\$31.45	\$65,433	\$34.73	\$72,232
47-2152	Plumbers, Pipefitters, and	\$16.20	\$33,681	\$33.31	\$69,270	\$36.85	\$76,639
47-2132	Steamfitters	\$10.20	\$33,061	ф33.31	\$09,270	\$30.63	\$70,039
49-9042	General Maintenance and	\$12.10	\$25,169	\$18.99	\$39,508	\$23.43	\$48,730
49-9042	Repair Workers	\$12.10	\$23,109	\$10.99	\$39,300	\$23.43	\$40,730
49-9099	Installation, Maintenance, and	\$9.74	\$20.240	\$17.36	\$36,106	\$24.20	\$50,346
49-9099	Repair Workers, All Other	\$9.74	\$20,240	\$17.30	\$30,100	\$24.20	\$30,340
51-4121	Welders, Cutters, Solderers,	¢11.20	\$23.486	¢15.05	¢22 170	\$19.52	¢40.600
J1-4121 	and Brazers	\$11.30	\$23,480	\$15.95	\$33,179	\$19.32	\$40,608

^{*}State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2006)

Table 3: Continued

DuPage County*							
		Entry Wage		Media	n Wage	Experienced Wage	
SOC	Occupational						
CODE	Title	Hourly	Annual	Hourly	Hourly	Annual	Hourly
	First-Line Supervisors/Managers						
37-1011	of Housekeeping and	\$10.75	\$22,373	\$15.58	\$32,417	\$20.87	\$43,411
	Janitorial Workers						
47-2031	Carpenters	\$16.06	\$33,419	\$26.81	\$55,763	\$30.29	\$62,994
47-2111	Electricians	\$18.17	\$37,795	\$22.29	\$46,365	\$29.22	\$60,780
47-2152	Plumbers, Pipefitters, and	\$22.20	\$46,175	\$33.05	\$68,753	\$36.66	\$76,270
47-2132	Steamfitters	\$22.20	\$40,173	\$33.03	\$00,733	\$30.00	\$70,270
49-9042	General Maintenance and	\$11.77	¢24 472	\$18.76	\$39,015	\$22.57	\$46.047
49-9042	Repair Workers	\$11.//	\$24,473	\$18.70	\$39,013	\$22.37	\$46,947
49-9099	Installation, Maintenance, and	¢12.41	¢25 900	¢10.72	¢41 022	¢22.54	\$16 000
49-9099	Repair Workers, All Other	\$12.41	\$25,809	\$19.73	\$41,023	\$22.54	\$46,882
51 4101	Welders, Cutters, Solderers,	¢11 07	¢24 692	¢15 00	¢21 202	¢10 65	¢20 000
51-4121	and Brazers	\$11.87	\$24,683	\$15.09	\$31,383	\$18.65	\$38,808

^{*}State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2006)

Table 3: Continued

Lake County*							_	
		Entry Wage		Median Wage		Experienced Wage		
SOC	Occupational							
CODE	Title	Hourly	Annual	Hourly	Hourly	Annual	Hourly	
	First-Line Supervisors/Managers							
37-1011	of Housekeeping and	\$14.13	\$29,381	\$24.09	\$50,098	\$26.66	\$55,457	
	Janitorial Workers							
47-2031	Carpenters	\$18.55	\$38,584	\$29.81	\$62,005	\$34.15	\$71,028	
47-2111	Electricians	\$19.61	\$40,788	\$28.13	\$58,514	\$35.54	\$73,931	
47-2152	Plumbers, Pipefitters, and	\$20.70	\$43,060	\$31.54	\$65,587	\$34.97	\$72.749	
47-2132	Steamfitters						\$72,748	
49-9042	General Maintenance and	\$12.51	\$26,026	\$18.03	\$37,503	¢21.07	\$45,702	
49-9042	Repair Workers					\$21.97		
40,0000	Installation, Maintenance, and	\$14.13 \$18.55 \$19.61 \$20.70	\$29,278	\$17.14	\$35,665	¢22.15	¢46.072	
49-9099	Repair Workers, All Other					\$22.15	\$46,073	
£1 4101	Welders, Cutters, Solderers,	¢10.01	\$20,820	\$13.59	\$28,257	¢16.00	¢25 105	
51-4121	and Brazers	\$10.01				\$16.92	\$35,195	

^{*}State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2006)

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Table 3: Continued

McHenry County*								
		Entry Wage		Median Wage		Experienced Wage		
SOC	Occupational							
CODE	Title	Hourly	Annual	Hourly	Annual	Hourly	Annual	
	First-Line Supervisors/Managers							
37-1011	of Housekeeping and	\$14.62	\$30,409	\$19.13	\$39,804	\$21.61	\$44,943	
	Janitorial Workers							
47-2031	Carpenters	\$17.04	\$35,439	\$22.97	\$47,779	\$27.29	\$56,766	
47-2111	Electricians	\$22.75	\$47,316	\$27.42	\$57,031	\$31.07	\$64,624	
47-2152	Plumbers, Pipefitters, and	\$23.93	\$49,772	\$36.02	\$74,934	\$38.18	¢70.422	
47-2132	Steamfitters						\$79,423	
49-9042	General Maintenance and	\$16.27	\$33,836	\$19.64	\$40,857	¢20.00	\$43,663	
49-9042	Repair Workers					\$20.99		
40,0000	Installation, Maintenance, and	\$17.04 \$22.75 \$23.93	\$34,623	\$20.68	\$43,009	¢22.21	\$46,200	
49-9099	Repair Workers, All Other					\$22.21		
51 4101	Welders, Cutters, Solderers,	¢12.01	\$27,046	\$17.82	\$37,073	¢20.97	¢42.400	
51-4121	and Brazers	\$13.01				\$20.87	\$43,408	

^{*}State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2006)

Table 3: Continued

Statewide*	Occupational	Entry Wage		Median Wage		Experienced Wage		
SOC								
CODE	Title	Hourly	Annual	Hourly	Hourly	Annual	Hourly	
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	\$10.75	\$22,365	\$16.11	\$33,519	\$20.86	\$43,403	
47-2031	Carpenters	\$14.58	\$30,330	\$24.97	\$51,950	\$29.37	\$61,093	
47-2111	Electricians	\$18.97	\$39,472	\$27.52	\$57,227	\$32.00	\$66,565	
47-2152	Plumbers, Pipefitters, and Steamfitters	\$17.52	\$36,442	\$31.17	\$64,832	\$35.14	\$73,080	
49-9042	General Maintenance and Repair Workers	\$11.20	\$23,291	\$17.72	\$36,858	\$21.91	\$45,585	
49-9099	Installation, Maintenance, and Repair Workers, All Other	\$10.39	\$21,613	\$18.40	\$38,277	\$22.52	\$46,852	
51-4121	Welders, Cutters, Solderers, and Brazers	\$11.43	\$23,774	\$15.59	\$32,431	\$18.81	\$39,129	

^{*}State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2006)

Table 3: Continued
National**

SOC CODE	Occupational Title	Median Hourly	Mean Hourly	Mean Annual	Mean RSE***	
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	\$15.04	\$16.16	\$33,610	0.3%	
47-2031	Carpenters	\$17.57	\$19.20	\$39,930	0.3%	
47-2111	Electricians	\$20.97	\$22.41	\$46,620	0.5%	
47-2152	Plumbers, Pipefitters, and Steamfitters	\$20.56	\$22.03	\$45,830	0.5%	
49-9042	General Maintenance and Repair Workers	\$15.34	\$16.11	\$33,510	0.2%	
49-9099	Installation, Maintenance, and Repair Workers, All Other	\$15.84	\$17.10	\$35,560	0.6%	
51-4121	Welders, Cutters, Solderers, and Brazers	\$15.10	\$15.81	\$32,880	0.3%	

^{**}National wage information from http://www.bls.gov (as of May 2006)
***RSE – Relative Standard Error