

ACT Career Readiness Benchmarks:

Aerospace Career Cluster

The Aerospace Career Cluster

- Occupations in the aerospace career cluster constituted 18% of total occupational employment in the U.S. in 2012.
- Aerospace careers are projected to grow more than 9% from 2012-2022 with more than 7 million openings due to growth and replacement.

Opportunities in the Aerospace Career Cluster

Education Group	O*NET Code	Occupation Title	US Employment 2012	US Projected Employment 2022	Job Openings, 2012-2022	Applied Mathematics (Range: 3-7)	Reading for Information (Range: 3-7)	Locating Information (Range: 3-6)
Low	51-2092	Team assemblers	1,031,800	1,081,300	212,600	3	4	3
	51-9061	Inspectors, testers, sorters, samplers, & weighers	464,300	490,000	127,700	4	4	4
	51-4041	Machinists	397,500	432,400	125,900	4	4	4
	51-4011	Computer-controlled machine tool operators, metal & plastic	140,300	160,700	59,600	4	4	4
	51-2011	Aircraft structure, surfaces, rigging, & systems assemblers	41,500	44,000	9,100	3	4	4
Middle	51-1011	First-line supervisors of production & operating workers	594,700	584,200	83,700	4	4	4
	49-3011	Aircraft mechanics & service technicians	121,700	124,700	35,600	5	5	5
	17-3026	Industrial engineering technicians	68,000	65,800	14,100	4	4	4
	17-3013	Mechanical drafters	66,700	63,400	8,900	5	4	5
	17-3021	Aerospace engineering & operations technicians	9,900	9,900	2,100	4	4	4
High	15-1133	Software developers, systems software	405,000	487,800	134,700	4	5	4
	17-2141	Mechanical engineers	258,100	269,700	99,700	4	4	5
	17-2112	Industrial engineers	223,300	233,400	75,400	5	5	5
	11-9041	Architectural & engineering managers	193,800	206,900	60,600	7	7	5
	17-2071	Electrical engineers	166,100	174,000	44,100	6	5	5

Career Readiness Benchmarks for Aerospace Careers

Career readiness skill levels can be aggregated by career cluster to develop career readiness benchmarks. Career readiness benchmarks can be used to develop curriculum and training programs for individuals seeking to acquire the foundational skills needed for jobs in a career path.

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Aerospace Career Cluster - Career Readiness Benchmarks

Education Group	Applied Mathematics (Range: 3-7)	Reading for Information (Range: 3-7)	Locating Information (Range: 3-6)
SKILL LEVEL REQUIRED FOR 85% OF OCCUPATIONS			
Low Education Occupations	4	4	4
Middle Education Occupations	5	4	5
High Education Occupations	6	5	5

Source: ACT Job Profiles, January 2004-December 2013

About the Data

The Aerospace career cluster was developed using the U.S. Bureau of Labor Statistics occupational staffing pattern for the Aerospace industry group. Occupations within the career cluster were grouped into low, middle, and high education groupings based on the US Bureau of Labor Statistics Most Significant Source of Education/Training. Employment data are from the U.S. Bureau of Labor Statistics Occupation Employment Projections 2002-2012.

Career readiness benchmarks and skill levels were derived from ACT's job profile database which includes over 20,000 job analyses for occupations across a diverse array of industries and occupations. Career readiness skill levels were presented for three WorkKeys® cognitive skills—Reading for Information, Applied Mathematics, and Locating Information for career clusters over the next 8-10 years.

A skill level required for each of the three education groupings for the career cluster was then created by establishing the level at the 85% percentile for each education grouping. This represents the skill levels required for entry into 85% of those occupations. The reasoning for establishing a skill threshold for each grouping is to show the skill demand for the majority of occupations within a career cluster.

Additional skills data for other occupations can be found at: http://profiles.keytrain.com/profile_search/.