The State of American Jobs

How the shifting economic landscape is reshaping work and society and affecting the way people think about the skills and training they need to get ahead

Tectonic changes are reshaping U.S. workplaces as the economy moves deeper into the knowledge-focused age. These changes are affecting the very nature of jobs by rewarding social, communications and analytical skills. They are prodding many workers to think about lifetime commitments to retraining and upgrading their skills. And they may be prompting a society-wide reckoning about where those constantly evolving skills should be learned – and what the role of colleges should be.

A new Pew Research Center survey, conducted in association with the Markle Foundation, finds that these new realities are not lost on the American public: The vast majority of U.S. workers say that new skills and training may hold the key to their future job success.

That sentiment is echoed in a new Pew Research Center analysis of government jobs data, which finds that for the past several decades, employment has been rising faster in jobs requiring higher levels of preparation – that is, more education, training and experience.

The number of workers in occupations requiring average to above-average education, training and experience increased from 49 million in 1980 to 83 million in 2015, or by

How economic change is reshaping the workplace

Employment is rising faster in occupations requiring more preparation ...

Number employed, in millions

... and most workers see continuous training as essential or important to career success

% saying training/skills development throughout their work life will be ...

Note: Employment data (top panel) are based on civilians ages 16 and older who are currently employed. “Job preparation” is a combination of education, experience and training. Survey findings (lower panel) are based on adults (ages 18+) who are in the labor force.


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68%. This was more than double the 31% increase over the same period in employment, from 50 million to 65 million, in jobs requiring below-average education, training and experience.¹

At the same time, the national survey – conducted May 25 to June 29, 2016, among 5,006 U.S. adults (including 3,096 employed adults) – shows how deeply Americans have internalized these trends:

Many see personal upgrading as a constant: More than half (54%) of adults in the labor force say it will be essential for them to get training and develop new skills throughout their work life in order to keep up with changes in the workplace. And 35% of workers, including about three-in-ten (27%) adults with at least a bachelor’s degree, say they don’t have the education and training they need to get ahead at work. Many are already taking action or being required to do so by their employer or by licensing requirements in their jobs: 45% of employed adults say they got extra training to improve their job skills in the past 12 months.

The public sees threats to jobs coming from several directions: Eight-in-ten adults say increased outsourcing of jobs to other countries hurts American workers, and roughly the same share (77%) say having more foreign-made products sold in the U.S. has been harmful. Significant shares also cite increased use of contract or temporary workers (57%) and declines in union membership (49%) as trends that are hurting, rather than helping, workers. At the same time, global markets for U.S.-made products are seen as helpful for workers by 68% of adults. And seven-in-ten say the rise of the internet and email has been a net positive.

Americans think the responsibility for preparing and succeeding in today’s workforce starts with individuals themselves: Roughly seven-in-ten (72%) say “a lot” of responsibility falls on individuals to make sure that they have the right skills and education to be successful in today’s economy. And 60% believe public K-12 schools should bear a lot of responsibility for this. After that, views differ on the roles that other entities, such as companies and different levels of government, should play in preparing people for the workforce.

The role of college is being debated: While many college graduates with two- or four-year degrees describe their own experience as having a positive impact on them, just 16% of all Americans think that a four-year degree prepares students very well for a well-paying job in today’s economy. And

¹ The level of preparation required by an occupation is based on ratings from the Department of Labor’s Occupational Information Network (O*NET). In the O*NET data, the preparation required is rated on a scale of one (little or no preparation needed) to five (extensive preparation needed). This rating depends on a combination of education, experience, and other forms of job training. The mid-level preparation (rating of three) corresponds to an associate degree or a similar level of vocational training, plus some prior job experience and one to two years of either formal or informal on-the-job training (e.g., electricians). Above-average preparation typically calls for a four-year college degree and additional years of experience and training (e.g., lawyers).
there is no consensus regarding the main purpose of college. Roughly a third of adults (35%) say it should be to help individuals grow personally and intellectually, while 50% say it should be to teach job-related skills.

Overall, the survey findings and employment data show how Americans are hustling to adapt to new labor force realities. Some of the key themes in this two-pronged analysis:

**The nature of jobs is changing, and women may be beneficiaries**

The new analysis of employment data shows that the job categories with the highest growth tend to require higher social skills, analytic savvy and technical prowess. Since 1980, employment in jobs requiring stronger social skills, namely interpersonal, communications or management skills, increased from 49 million to 90 million, or 83%. Further, employment increased 77% (from 49 million to 86 million) in jobs requiring higher levels of analytical skills, including critical thinking and computer use. By comparison, the number of workers in jobs requiring higher levels of manual or physical skills, such as machinery operation and physical labor has changed relatively little.²

A look at occupations by the combinations of skills suggests that jobs requiring both higher social and higher analytical skills, such as managerial or teaching jobs, are generally doing better than other jobs in terms of employment growth. Employment in these hybrid occupations has grown 94% since 1980 (from 39 million to 76 million), representing a higher growth rate than jobs requiring higher social skills or those calling for higher analytical skills.

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² The importance of a given skill to a job is ascertained from the latest ratings in the Department of Labor’s Occupational Information Network (O*NET). See Chapter 1 and Methodology for more details.
How we measured the changing need for skills in the workplace:
The analysis of job skills and preparation in this report is based on the U.S. Department of Labor’s Occupational Information Network (O*NET), a database covering more than 950 occupations. Each occupation is rated on a series of dimensions, including the importance of various skills and the level of preparation needed to perform the job.

This report analyzes the changing demand for three major families of job skills – social, analytical and physical. Social skills encompass such things as writing, speaking, managing and negotiating. Examples of analytical skills are critical thinking, mathematics and computer programming. Physical skills include operating vehicles and machinery and repairing electronic equipment. Occupations were rated as requiring either an average to above-average level of each major skill type or a below-average level of each skill. The skill ratings utilize the latest available O*NET data and do not change over time. Changes in employment for occupations grouped by the importance of social, analytical and physical skills reflect the changing need for each skill. (Employment estimates are derived from the Current Population Survey (CPS); see Chapter 1 and Methodology for more details.)

Many occupations have overlapping skill requirements (e.g., it is important for postsecondary teachers to have higher levels of both social and analytical skills).

The analysis also uses O*NET data to examine the changing need for job preparation in the workplace. The level of preparation reflects the combination of education, experience and other forms of training needed on the job. Occupations were rated as requiring either an average to above-average level of preparation or a below-average level of preparation. The average level of preparation corresponds to an associate degree or a similar level of vocational training, plus some prior job experience and one or two years of either formal or informal on-the-job training (e.g., electricians).
The shifting demand for skills in the modern workplace may be working to the benefit of women. Women, who represent 47% of the overall workforce, make up the majority of workers in jobs where social or analytical skills are relatively more important, 55% and 52%, respectively. For their part, men are relatively more engaged in jobs calling for more intensive physical and manual skills, making up 70% of workers in those occupations. This is likely to have contributed to the shrinking of the gender pay gap from 1980 to 2015 given that wages are rising much faster in jobs requiring social and analytical skills.

These changes highlight the rise of a service-oriented and knowledge-based economy. From 1990 to 2015, employment growth in the U.S. was led by the educational services and health care and social assistance sectors. Employment has doubled in each of these sectors since 1990 (105% and 99%, respectively). By comparison, overall employment (non-farm) increased 30% during this period.

**Most workers say they will need continuous training, and many say they don’t have the skills they need now to get ahead in their job.**

Fully 54% of adults who are currently in the labor force say that it will be essential for them to get training and develop new skills throughout their work life to keep up with changes in the workplace. An additional 33% say this will be important, but not essential. Only 12% of workers say ongoing training will not be important for them.

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**Over the past 25 years, employment growth has been most rapid in education and health services**

*% change in industry employment, 1990-2015*

<table>
<thead>
<tr>
<th>Industry</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational services</td>
<td>105%</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>99%</td>
</tr>
<tr>
<td>Professional and business services</td>
<td>81%</td>
</tr>
<tr>
<td>Leisure and hospitality</td>
<td>63%</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>39%</td>
</tr>
<tr>
<td>Other services</td>
<td>32%</td>
</tr>
<tr>
<td>All</td>
<td>30%</td>
</tr>
<tr>
<td>Financial activities</td>
<td>23%</td>
</tr>
<tr>
<td>Construction</td>
<td>22%</td>
</tr>
<tr>
<td>Government</td>
<td>20%</td>
</tr>
<tr>
<td>Retail trade</td>
<td>19%</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>12%</td>
</tr>
<tr>
<td>Mining and logging</td>
<td>7%</td>
</tr>
<tr>
<td>Information</td>
<td>2%</td>
</tr>
<tr>
<td>Utilities</td>
<td>-25%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>-30%</td>
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</tbody>
</table>

Note: “All” does not include farm employment.


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It’s the most highly educated workers who feel this most acutely. Some 63% of adults with a bachelor’s degree or higher level of education say they will need to keep advancing their skills throughout their career, compared with 45% of those with no college experience who feel the same sense of urgency. Government data reinforce this finding as workers with higher levels of education are more likely to engage in job training or acquire job certificates or licenses.

Young adults are more likely than their older counterparts to see skills and training as essential (61% among those ages 18 to 29), perhaps because of the longer trajectory they have ahead of them. Even so, 56% of those ages 30 to 49 say ongoing training will be essential for them, as do roughly four-in-ten workers ages 50 and older.

Adults who are working in certain STEM-related industries of science, technology, engineering and math are among the most likely to say ongoing training and skills development will be essential for them. Two-thirds of employed adults who work in computer programming and information technology say this will be essential for them. And roughly six-in-ten workers who are in the health care industry (62%) say the same. By contrast, about half of adults working in hospitality (47%), manufacturing or farming (46%) or retail or wholesale trade (46%) see training and skills development as an essential part of their future work life.3

For some people, acquiring new skills won’t just be a necessity in the future: 35% of working adults say they need more education and training now in order to get ahead in their job or career. A plurality of those who say they need more training say the best way for them to get that training would be through additional formal education. This is true across levels of educational attainment: Four-year college graduates say they would pursue a graduate degree, two-year college graduates say they would try to get a four-year degree, and high school graduates say they would go to college.

³ The industries and occupations mentioned are not exhaustive but represent some of the most common responses given in the survey. See Methodology for details on how industries and occupations were classified.
A significant share (about a third) of workers who say they need more training believe on-the-job training would be the best way to gain the skills they need to get ahead, while fewer (17%) point to certificate programs as the most promising pathway.

Public sees a mix of soft skills and technical skills as crucial to success in today’s economy

When people think about what it takes for workers to be successful these days, large majorities rank a mixture of technical and “soft skills” as critical, including detailed understanding of how to use computers (85% say this is “extremely” or “very” important), ability to work with those from diverse backgrounds (85%), training in writing and communications (85%) and access to training to update skills (82%).

Next on the list are training in science and math – 69% believe that is extremely or very important – and knowing computer programming (64%). A smaller share of Americans believe that mastering social media (37%) and knowing a foreign language (36%) are at least very important for success in the modern workplace.
When workers are asked about the skills they rely on most in their jobs, interpersonal skills, critical thinking, and good written and spoken communications skills top the list. While most Americans say having a detailed understanding of computer technology is very important for success in today’s economy, only 28% say computer skills are central to the work they do, and even fewer (14%) say they rely on high-level math, analytical or computer skills at work.

Workers who rely heavily on interpersonal skills, critical thinking and good communications skills report that they acquired these skills in different settings. Among workers who say that having interpersonal skills is extremely or very important for them to do their job, some 35% say they learned those skills on the job, while 8% say they honed those skills through their formal education. But a sizable share – 38% – volunteer that they taught themselves those skills or came by them naturally.

For those who rely on critical thinking skills, the workplace is an important training ground. Among workers who say this skill set is important in their job, 46% say they learned these skills on the job. About one-in-five (19%) say they acquired these skills in their formal education, and a similar share (18%) say they gained these skills through life experience.

Workers are more divided when it comes to where they learned written and spoken communications skills: 42% say they picked up these skills through their formal education, while 30% say they learned these skills through work experience. An additional 12% say they learned these skills through life experience or that they were self-taught.

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4 Respondents who reported having more than one job but did not consider any to be their primary job were not asked this question, nor were they asked most subsequent questions about their current job. Those who said they have more than one job but consider one to be their primary job were asked to think about only their primary job when answering questions about their current job.

5 Respondents were asked how they learned one skill that they listed as extremely or very important for their job. Respondents who ranked only one skill as “extremely important” were asked about that skill. If they ranked more than one skill extremely important, one of those skills was randomly chosen. Respondents who did not rank any skills extremely important but ranked one skill “very important” were asked about that skill. If they ranked no skills extremely important, but ranked more than one skill very important, one of those skills was randomly chosen.
Pay is almost stuck in place and benefits are less plentiful

The earnings of American workers have increased modestly in recent decades. According to the Center’s analysis of government data, the average hourly wage, adjusted for inflation, increased from $19 in 1990 to $22 in 2015, or 16% in 25 years. Jobs requiring higher levels of social or analytical skills generally pay more than jobs requiring higher physical or manual skills, and the pay gap between manual and analytical jobs has grown over the years.

The average hourly wage of workers in jobs requiring higher levels of analytical skills increased from $23 in 1990 to $27 in 2015, or 19%. And the average wages of workers in jobs requiring higher levels of social skills increased from $22 to $26 over that time period (15%). In the meantime, the average hourly wage of workers in jobs in which physical skills are important increased only 7%, from $16 in 1990 to $18 in 2015.

The survey finds that pluralities of Americans feel that employer benefits are not as generous as they were in the past (49% say that) and that they will continue to worsen in the future (44%). They are right about the direction benefits have been going. According to government data, the share of workers with an employer-sponsored health insurance plan (either through their own employer or through the employer of a family member) fell from 77% in 1980 to 69% in 2013. In addition, the share of workers with access to an employer-sponsored retirement plan has fallen. It most recently peaked at 57% in 2001, up from 50% in 1980. However, the share fell to 45% by 2015.

Wages are higher and increased more in occupations requiring relatively higher levels of social or analytic skills

Average hourly wage, in 2015 dollars

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Note: Based on civilian wage and salary workers ages 16 and older. Self-employed workers are not included.
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6 Percentage changes are computed before numbers are rounded.
7 This increase occurred entirely in the 1990s, a decade that encompassed the longest economic expansion in modern U.S. history. The share covered by their own employer’s health plan held fairly steady in the 1990s, in contrast to declines before and after the decade.
Currently, most Americans do not feel threatened in their jobs, but many say jobs feel less secure than in the past and competitive threats come from several directions

There are somewhat paradoxical findings in the survey when it comes to issues related to job security. On the one hand, American workers’ confidence in their own job security is relatively high these days, especially compared with the low point in the early 1980s. On the other hand, people believe there is less job security overall now than in the past, and that more job insecurity awaits tomorrow’s workers.

Today, 60% of employed Americans say it is not at all likely that they will lose their job or be laid off in the next 12 months. An additional 28% say it is not too likely. By comparison, in the midst of the 2001 recession, 52% believed it was not at all likely they would be laid off.

Overall, 49% of American workers say they are very satisfied with their current job. Three-in-ten are somewhat satisfied, and the remainder say they are somewhat dissatisfied (9%) or very dissatisfied (6%). The most satisfied workers tend to live in higher-income families and have higher levels of education.

Still, the survey identifies vulnerable workers. Those with lower levels of education are more likely to be temporary workers or out of work altogether. They are also more likely to believe their current skills are insufficient for career advancement and to think there are not enough good jobs locally. Furthermore, less educated workers are also among the most likely to say that their jobs are imperiled. For instance, 39% of those without a high school education say it is very or fairly likely they may be laid off within 12 months. By comparison, 7% of those with a bachelor’s degree or more education say the same.

Educational attainment is a clear and consistent marker when it comes to feelings about job security and future prospects. One-in-five (20%) of those with a high school diploma or less believe it would be possible for their boss to use technology to replace them – nearly double the rate of those with a bachelor’s degree who say that. Roughly four-in-ten (38%) workers with no college experience say they lack the education and training to get ahead in their jobs, compared with 27% of those with a bachelor’s degree who assert that.

More broadly, and despite the views of many that their current jobs are safe, a sizable number view the national job situation as unstable at best. A majority of Americans (63%) believe jobs are less secure now than they were 20 to 30 years ago, and about half (51%) anticipate jobs will become less secure in the future.
As they assess the factors that may be hurting U.S. workers, people say the greatest harms to American jobs are outsourcing (80% believe outsourcing hurts American workers) and imports (77%). Many also cite the increased use of contract and temporary workers (57%) and the decline of union membership (49%) as harmful factors.

The impact of immigrants and automation draw more evenly divided verdicts. Half of Americans (50%) think automation of jobs has hurt workers, compared with 42% who think it has helped.

Some 45% of Americans believe the growing number of immigrants working in the U.S. has hurt workers overall, and 42% believe the immigrant influx has helped workers. There has been a substantial increase since 2006 in the share of Americans, especially among Democrats, who believe the influx of immigrant workers has helped U.S. workers overall.

What’s mostly helping workers? Big majorities think exports and work-enhancing technology such as the internet and email are aids to workers.

<table>
<thead>
<tr>
<th>Helps American workers</th>
<th>Hurts American workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased outsourcing of jobs to other countries</td>
<td>15</td>
</tr>
<tr>
<td>More foreign-made products being sold in U.S.</td>
<td>22</td>
</tr>
<tr>
<td>Increased use of contract or temp employees</td>
<td>35</td>
</tr>
<tr>
<td>Decline of union membership</td>
<td>33</td>
</tr>
<tr>
<td>Automation of jobs</td>
<td>42</td>
</tr>
<tr>
<td>Growing number of immigrants working in U.S.</td>
<td>42</td>
</tr>
<tr>
<td>More U.S.-made products being sold abroad</td>
<td>68</td>
</tr>
<tr>
<td>Internet, email, other office tech</td>
<td>70</td>
</tr>
</tbody>
</table>

People say workers themselves have the most responsibility for their job readiness and K-12 schools are the next in line; opinions diverge about the role of colleges, employers and governments

Americans think the responsibility for preparing and succeeding in today’s workforce starts with individuals themselves: 72% say “a lot” of responsibility should fall on individuals, and 22% say “some” responsibility is theirs. Six-in-ten believe public K-12 schools should have a lot of responsibility, while 28% believe schools should bear some responsibility.

After that, views differ on the roles other entities should play, including some ambivalence about the purpose of colleges and universities. Among all adults, 52% say colleges should have a lot of responsibility in making sure that the American workforce has the right skills and education to be successful, and 49% believe employers should have a lot of responsibility. After that, 40% assign a lot of responsibility to state governments, and 35% say the federal government should assume a lot of responsibility.

Notably, people’s views are linked to their partisan allegiances. Democrats and independents who lean Democratic are more likely than Republicans and Republican leaners to say public schools, colleges, and the federal and state governments should have a lot of responsibility for making sure...
U.S. workers are prepared for today’s jobs. Republicans and Republican leaners place more emphasis on individual responsibility.

**Even as college graduates salute their experiences as positive, many do not think colleges do a great job preparing students for the workplace**

Americans have somewhat mixed attitudes about the effectiveness of traditional four-year colleges and other higher education institutions. On a personal level, many college graduates describe their own educational experience as having a generally positive impact on their personal and professional development. Around six-in-ten (62%) college graduates with a two-year or four-year degree think their degree was very useful for helping them grow personally and intellectually, while roughly half think it was very useful for opening up job opportunities (53%), or for providing them with specific job-related skills and knowledge (49%).

Yet even as many college graduates view their own educational experience in positive terms, the public as a whole – including a substantial share of college graduates – expresses reservations about the ability of higher education institutions to prepare students for the workforce more generally.

Just 16% of Americans think that a four-year degree prepares students very well for a well-paying job in today’s economy. An additional 51% say colleges prepare students somewhat well for the workplace. The verdict on two-year colleges is similar: 12% think that a two-year associate degree prepares students very well, and 46% say this type of degree prepares students somewhat well. When it comes to professional or technical certificates, 26% of adults say these prepare students very well for well-paying jobs and 52% say somewhat well. These findings tie to previous Pew Research Center surveys.
Research work showing that noteworthy majorities of adults think colleges fail to provide students with good value for the money and that college is too expensive.

Relatively positive assessments of certificate programs as a way to prepare workers for jobs in today’s economy are particularly widespread among those who did not complete high school; 44% in this group say these types of programs prepare people very well, compared with about a quarter (27%) of those with a high school diploma and a similar share of those with some college (22%), a two-year degree (28%), or a four-year degree or more (22%).

Workers have mixed views on the extent to which their own credentials and qualifications match up with the requirements of their job. Some 41% say they have more qualifications than their job requires, compared with 50% who think they have the right amount of qualifications and 9% who say they are underqualified.

In addition, working Americans were asked if they thought someone with less education than they had could develop the skills and knowledge needed to do their job. A solid majority (73%) say “yes.” Among those with a bachelor’s degree, 65% say someone with less education could learn to do their job, and the shares are significantly higher among those with some college (82%) and those with a high school diploma (80%). Even so, job seekers take minimum requirements seriously. A third of those who do not have a four-year college degree have elected not to apply for a job they felt they were qualified for because it required a four-year degree, suggesting that employers may be missing out on a pool of potential workers.

**The economy is at the top of voters’ minds**

These findings about the state of work in America emerge in the midst of a national political campaign where voters think the economy is a top concern. A separate Pew Research Center survey, conducted Sept. 1 to 4, 2016, among 1,004 adults nationwide, focused on major issues in the campaign. Offered a list of five key issues and asked which one is the most important to their vote for president, 37% of registered voters cite the economy, 18% choose health care, 14% say terrorism, 13% name immigration and 13% name gun policy.

Asked further about a series of economic concerns, 43% of voters say the job situation is either the most important

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**Economy tops other key issues in importance for presidential vote**

<table>
<thead>
<tr>
<th>Issue</th>
<th>% of registered voters saying __ is the most important issue in their vote for president</th>
</tr>
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<tbody>
<tr>
<td>Economy</td>
<td>37</td>
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<tr>
<td>Health care</td>
<td>18</td>
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<tr>
<td>Terrorism</td>
<td>14</td>
</tr>
<tr>
<td>Immigration</td>
<td>13</td>
</tr>
<tr>
<td>Gun policy</td>
<td>13</td>
</tr>
</tbody>
</table>

economic issue in determining their vote for president this year or the second most important. The
same share say the federal budget deficit is either first or second among the factors driving their
vote for president. An additional 38% of voters point to tax reform as the most or second-most
important economic issue influencing their vote for president, 32% cite income inequality, 22%
say rising prices and 16% cite global trade.

Among registered voters, Republicans (43%) and Democrats (48%) are roughly equally likely to
cite jobs as the first or second key economic issue driving their vote for president. They differ,
however, in the importance of the budget deficit – Republicans are three times as likely as
Democrats to rank this as a top issue (62% vs. 20%). Among independents, 50% place high
importance on the deficit. Republican voters also place more importance on tax reform than do
Democrats (44% vs. 31% say it’s the most or second-most important issue).

Democratic voters place much more importance on income inequality than do Republicans: 54%
vs. 12%, respectively, rank this issue as the most or second-most important economic issue for
them. Democrats are also more likely than Republicans to say rising prices are an important voting
issue (26% vs. 16%). There is no significant gap between Democrats and Republicans when it
comes to the importance of global trade.

The remainder of this report examines in greater detail key trends in the labor market and how
they are playing out in the lives of American workers. Chapter 1 includes an analysis of trends in
job and wage growth by occupations with an emphasis on skills and preparation. It also looks at
trends in employer-provided benefits, job tenure, hiring practices and alternative work
arrangements. Chapter 2 looks at public assessments of the job situation – including how key
characteristics of work have changed from a generation ago and what the future may look like, the
extent to which megatrends in the economy are helping or hurting today’s workers, who bears the
greatest responsibility for worker readiness these days, and which skills are most important in
today’s economy. Chapter 3 explores the views of workers themselves including job satisfaction
and fulfillment and feelings about job security. Chapter 4 looks at the skills workers use in their
own jobs, whether they feel properly equipped to do their jobs well, and where they would turn to
increase their skills and gain additional training. And finally, Chapter 5 explores public views
about the value of a college education.

Other key findings:

- In 2015, one-in-four workers (25%) in the U.S. had a job-related certificate or license, such
  as an information technology certificate or a teacher’s license, according to new data from
  the U.S. Bureau of Labor Statistics. The share is higher among better educated workers,
running at 52% among workers with a postgraduate degree. Women (28%) are more likely than men (23%) to have a certificate or license.

- Young workers are earning significantly less than they did in 1980, but the opposite is happening with older workers. Among full-time, year-round workers, the median earnings of 16- to 24-year-olds in 1980 were $28,131. By 2015 the median had fallen 11%, to only $25,000. Meanwhile, the median pay of workers 65 and older rose 37%, from $36,483 in 1980 to $50,000 in 2015. And workers ages 55 to 64 also earned 10% more in 2015 than they did in 1980. (Earnings data are in 2014 dollars.)

- Americans are putting in more time at work. The average length of a workweek was 38.7 hours in 2015, slightly up from 38.1 hours in 1980.\(^8\) Meanwhile, Americans are working more weeks per year. The average weeks worked per year increased from 43 in 1980 to 46.8 in 2015. Combined, this adds up to an additional one month’s worth of work in a year.

- Job tenure has ticked upwards. In 2014, about half of workers (51%) had worked for their current employer five years or more, compared with 46% of workers who were in that position in 1996.

- Workers are increasingly taking on a variety of nontraditional jobs: Some work as independent contractors, some are employed through a contract firm and others are on-call workers or serve as temporary help through an agency. According to experts,\(^9\) the share of U.S. workers with these alternative employment arrangements has gone up significantly in this century. It’s estimated that in 2015, 15.8% of the U.S. workforce, or 24 million workers, is in these types of jobs.

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\(^8\) The trend in hours worked depends on the data source (Frazis and Stewart, 2010). The figures presented are based on the Current Population Survey and use household respondent reports of work hours.

\(^9\) All references for alternative work arrangements are from Katz, Lawrence F. and Alan B. Krueger, “The Rise and Nature of Alternative Work Arrangements in the United States, 1995-2015” Published September, 2016, NBER.