

"We believe that business, at its best, serves the public good, empowers people around the world, and binds us together as never before."

Tim Cook

# People come first. In everything we do.

We care deeply about the people who help build our products, and the planet we all share. So we hold ourselves and our suppliers to the highest standards to ensure everyone is treated with dignity and respect. And we share our work openly so others can follow our lead.

We continuously challenge ourselves to expand our education programmes and provide skill-building opportunities that meet the needs of those in our supply chain. Since 2008, over 3.6 million supply chain employees have participated in education programming. We've implemented programmes that help supplier employees learn new skills, earn degrees and expand their career options. We also provide health and wellness education to give people the tools to take charge of their well-being.

Every year, we find new ways to partner with our suppliers to protect the planet. In 2018, our suppliers achieved UL Zero Waste certification for all final assembly test and packaging facilities across iPhone, iPad, Mac, Apple Watch, AirPods and HomePod. Our suppliers conserved 28.8 billion litres of freshwater, and 100 per cent of our final assembly sites adopted safer, greener cleaners in their manufacturing processes.

Driving the highest standards in the world means continuously raising them, and helping our suppliers meet them. In 2018, we completed 770 Apple-managed supplier assessments covering manufacturing facilities, logistics and repair centres, and contact centre facilities. In addition, 279 third-party mineral smelter and refiner audits were conducted.

We believe that if we're not finding areas to improve, we're not looking hard enough. If we discover that standards aren't being met, we work side by side with suppliers to help them improve. If a supplier is unwilling or unable to meet our requirements, we end our business relationship with them. Through capability building and partnership, we not only improve our suppliers' performance in our supply chain, but beyond it as well.

Our 2019 Annual Progress Report outlines the results of our efforts in 2018.

Apple Supplier Responsibility 2019 Progress Report

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# 2018 Highlights

#### **People**

No.1

2018 Stop Slavery Award
— issued by the Thomson
Reuters Foundation

\$30.9<sub>M</sub>

supplier recruitment fees repaid since 2008, \$616k repaid to 287 supplier employees in 2018 96%

compliance with Apple Working Hours Standards across all working weeks  $17.3_{M}$ +

supplier employees trained on their rights since 2007

#### **Planet**

100%

final assembly sites for iPhone, iPad, Mac, Apple Watch, AirPods and HomePod UL Zero Waste certified 28.8в

litres of freshwater saved and 39% supplier water reuse rate A+  $\frac{Mind}{the}$  Store

In 2018, Apple was awarded an A+ rating and ranked first out of 40 retailers by Mind the Store for our actions to eliminate toxic chemicals No. 1

ranking, Corporate Information Transparency Index (CITI), fifth year in a row

#### **Progress**

1,049

770 Apple-managed supplier assessments + 279 smelter and refiner third-party audits conducted in 45 countries 76%

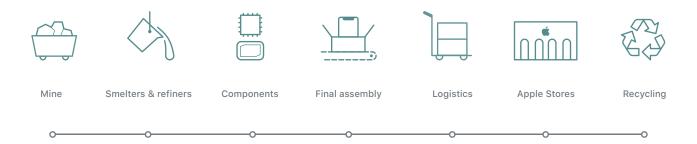
high-performing supplier facilities, 1% low-performing 100%

participation in third-party audits across identified tin, tantalum, tungsten, gold and cobalt smelters and refiners 30%

increase in high-performing suppliers year on year

## Our supply chain is global. So is our responsibility.

Apple products are made all over the world. We work with suppliers, from mining to recycling, to verify that our requirements are being met for the people and communities in our supply chain. In 2018, a total of 1,049 supplier assessments were conducted in 45 countries.



We enforce our policies by assessing and closely partnering with our suppliers at every point in our supply chain.



# People

Empowering people through education, skill building, and a safe and respectful workplace

Over 3.6 million supplier employees have participated in education and skill-building programmes to date.

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Robotics instructor with students, Robotics classroom,

# Building new skills for the future

Our education programmes are designed to provide a path to advancement for the people in our supply chain, from life skills to vocational certifications and university degrees. Here are the stories of a few of those employees who participated in Apple education programmes in 2018.

For the millions of employees who work for Apple's suppliers, advancement often begins with education. That means education of all kinds — vocational education, education in the soft skills that help employees become better managers, and health education that gives them tools to manage their wellbeing. Apple's education programmes are designed to function like a staircase, allowing participants to climb, one step at a time, towards their goals.

You can see that in action at the facilities of Catcher Technology in Sugian, a Chinese city of 5 million, 300 miles north-west of Shanghai. There, Liu Jingbo is leading his students into the future of manufacturing. The students, though, aren't merely students — they are full-time employees at Catcher who are taking advantage of a programme created by Apple that provides on-the-job training in the kind of automation technology that is changing the way manufacturing is done. On each side of the students are six industrial robotic arms at rest, the same kind used throughout Catcher's facility, which manufactures precisely moulded machine metal casings that form the foundations of iPhone, iPad and MacBook. "You need to know the basic coding of how to program your robotic arm," Liu tells his students, who sit before operating systems that control the model robot arms. "But you also need critical thinking skills, so you know how to troubleshoot."

At the facilities of the electronics manufacturer Jabil in the central Chinese city of Chengdu, employees were given the opportunity to dedicate time this past autumn to learning to code in the Swift language used to create iPhone apps. And that's exactly what they did, building their own original apps over the course of their time in training.

"It really changed my life," says Tao Jiang, a technician who joined Jabil in 2018 and co-created an app that helps employees share technical tips through a workplace social media system. "Now if I face a problem, I can turn it around to look at it in a different way. It's totally changed my mindset at work. Before I was just an operator, but now I want to be a professional in the IT department."

"Now if I face a problem, I can turn it around to look at it in a different way. It's totally changed my mindset at work."

Another education programme, the Factory Line Leader Programme, provides university students from vocational schools in four cities across China with an opportunity to learn to become what are known as line leaders — manufacturing line supervisors, essentially — through a newly created work-study programme.

People

Last year, Lin Weiqiang, along with his classmates in the city of Xiamen in China's southern Fujian province, participated in the Factory Line Leader Programme at the Apple supplier TPK. They still take classes, but their schooling under the programme is much more interactive than traditional vocational education. The programme places students on the production line, with veteran mentors to tutor them. And they also receive lessons in soft skills — how to interact with line employees effectively, how to speak in public and how to organise their time. They're the sort of skills you need to be a good line leader. "These are the kinds of things you can't learn in school," says Wang Minglong, another participant in the programme. "If I hadn't come here, I wouldn't know how to deal with different kinds of people."

#### "These are the kinds of things you can't learn in school."

While suppliers will benefit from a well-prepared workforce, it's the students themselves who stand to benefit most. "I would say this programme changed my career path and even my life," says 23-year-old Wu Zubin. "Before I joined this programme I had no idea what I would do, no idea what kind of job I could get. This has given me a clear path forward."

#### "I would say this programme changed my career path and even my life."

Providing those paths for advancement is what Apple is aiming to do, by meeting employees where they are and seeking to support their own unique goals.

People

#### Creating paths to advancement

# New skills, degrees and pathways

Since 2008, we've provided the people in our supply chain with opportunities to take part in education and skill-building programmes. We began with classrooms that offered supplier employees access to online learning that spanned life skills to enrichment to university degrees. As our education programme grew, we reached more people, in more parts of our supply chain, with more diverse offerings. Today, employees in our manufacturing supply chain, and people deeper in our supply chain, have access to skill building that can help them advance in their jobs and gain further education.

#### A path to advance — at every skill level

3.6M+

Over 3.6 million participants to date

-0200		
Empowerment and life skills	Vocational skills	Education and career advancement
Health awareness	Electrician services	Environmental Health and Safety certification
Mobile learning	Factory Line Leader	Associate's degree
Life-skills courses	Robotics	Bachelor's degree
Personal enrichment courses	Swift coding	Vocational certification

68%

of participants had minimal or no coding experience before the programme; today, they can develop an app

42

apps developed by participants spanning workplace improvements, gaming and social networking

### Coding a new career path

In 2017, a programme was created to share Apple's Swift coding technology with supply chain employees. Swift was developed by Apple as an intuitive tool that makes learning to code fun and interactive.

Our coding programme initially focused on bringing training to supplier employees in several major sites around China, and started with the basics. Once familiar with operating systems and interfaces, students began learning to code. The programme offers interactive lessons to teach key coding concepts, and additional challenges and templates encourage students to explore code in engaging new ways.

In 2018, the next phase of Swift content rolled out to participating supplier facilities, an intensive App Development with Swift training programme. At the end of the programme, many students had the skills to successfully create their own app. The apps cover a wide range of topics, from real-time machine maintenance to employee engagement and community building.

Since graduating from the programme, many participants have gained more advanced positions at work in IT-related roles. Whether it's a more advanced job at the factory or an opportunity with Apple, providing opportunities for personal and job advancement after completing the programme is a priority.



 $13.5 \text{K}^{+}$ 

enrolled in degree programme since 2008

6K+

enrolled in vocational certification since 2017

### More options, more opportunity

Since 2008, our Supplier Employee Education and Development (SEED) programme has empowered supplier employees through education. In addition to university courses, participants can take courses that range from art to learning a new language to financial planning.

In 2018, over 1,500 supplier employees earned a university degree through the SEED programme. Since SEED began, over 13,500 supplier employees have enrolled in a degree programme.

In 2017, vocational certifications were added to the SEED curriculum. Today, supply chain employees can obtain certification in skills such as iPhone repair, Environmental Health and Safety, and electrician services. The certification gives supplier employees an opportunity for immediate job advancement upon completion of training.

In 2018, more than 3,000 supplier employees participated in vocational certification training.

#### Vocational certification — a path to advancement



iPhone repair



Environmental Health and Safety



Electrician services

# New skills for the workforce of tomorrow

#### Skill building for smart manufacturing

As a part of SEED's expansion into vocational certification, a programme was launched to provide robotics training to employees in our supply chain. The programme offers on-the-job training to equip supplier employees with skills to work in the new landscape of smart manufacturing while receiving opportunities for job growth and advancement.

#### Skill building for tomorrow's leaders

In addition to robotics certifications, Apple's Factory Line Leader Programme was developed in 2017. Line leaders provide management to an assembly line, a job that requires managerial and soft skills. The Factory Line Leader Programme provides vocational training students with the technical and soft skills necessary to become qualified line leaders.

The programme partners with leading academics in diverse regions of China to create customised vocational training programmes to best prepare the workforce of tomorrow. After completing Factory Line Leader training, students are guaranteed an internship with an Apple supplier and full-time employment opportunities.

Following completion of their internships in 2019, programme participants will be eligible for line leader positions at Apple suppliers.

744

supplier employees earned a certificate in assembly line robotics in 2018

203

participants in the SEED programme now hold advanced robotics positions at supplier facilities

17

# Skill building, deeper in our supply chain

The risks associated with mineral sourcing are unique from our manufacturing supply chain.

In order to gain a deeper understanding of human rights risks associated with artisanal and small-scale mining in the Democratic Republic of the Congo (DRC), we helped fund research by the Center for Effective Global Action (CEGA) at the University of California, Berkeley. The results of the CEGA study informed an expanded partnership with Pact, a non-profit organisation focused on international development in nearly 40 countries. Together with Pact, we launched a targeted vocational education and alternative livelihoods programme for at-risk youth living in mining communities in the former Katanga province of the DRC.

The programme provides at-risk youth in the DRC with an opportunity to receive vocational education in areas including:

- Car and Motorcycle Mechanics
- Beauty and Hairstyling
- Welding and Metalwork
- Masonry and Bricklaying

- Information Technology
- Culinary Arts
- Electronics Repair
- Carpentry and Woodworking

Upon completion of the programme in 2018, over 90 per cent of participants graduated from their selected course.

"The programme has successfully helped at-risk youth in mining communities of the Democratic Republic of the Congo. Participants who were formerly working in mines now have more educational and career possibilities in a safer, more sustainable setting."

Karen Hayes Pact

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Christelle Banza Mujinga, Beauty and Hairstyling, Democratic Republic of the Congo

# Gaining the skills for a new profession

Christelle learned of the Apple-funded vocational education programme offered by Pact in 2017. She told her friends who worked with her at a local mine about the programme but, ultimately, she was the first of her friends to sign up.

Of the options available, Christelle was most interested in hairstyling, and began her vocational training in October 2017. She spent months taking courses at a hair salon, and spent her free time practising her new skills on friends and neighbours.

Today, Christelle works in a salon. Her friends have seen Christelle excel in her new work, and four have chosen to follow her lead and are seeking to learn hairstyling through Pact's vocational education programme.

"Thanks to the project, I was able to train in beauty and hairstyling. With the money I earn, I can purchase everything that I need. Now, I can support myself and sometimes, when food is scarce at home, I provide my contribution. I am very proud to be able to help my parents."

#### Health education

# Elevating knowledge

In 2017, our education efforts expanded to health. The Health Programme was launched using a peer-to-peer training model at several supplier facilities in China in an effort to empower women in our supply chain with information to maintain their health.

Beyond basic health knowledge, the programme provides vital information and training on critical topics such as self-examination for early breast cancer detection, nutrition, personal care and maternal health.

We set an ambitious goal — to bring health awareness to over 1 million people in our supply chain by 2020.

Women's empowerment through health awareness

17%

increase in overall knowledge of women's health issues 16%

increase in utilisation of women's healthcare

"After giving birth to my baby, I was having symptoms I didn't understand. After attending Apple's health training, I understood the symptoms and proactively went to the hospital for treatment."

Zhang Yanling
Apple Health Programme participant

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In 2018, in China, we expanded the programme to include content for mobile platforms, including short videos, articles and quizzes on key health topics. In addition to new offerings, peer-to-peer training continued, large-scale health fairs were conducted, and access to local clinics for safe, anonymous testing and clinical care was facilitated.

Personal health content was also introduced into the onboarding training for new employees at selected suppliers in China, utilising both traditional training methods as well as mobile platforms.

We partner with Peking University to continually monitor and measure the impact of our programming.

#### Health awareness for 1 million supply chain employees by 2020



Peer-to-peer training



Health fairs



Health clinics and testing



New hire orientation



Mobile content

# 250k+

As of 2018, over 250,000 supplier employees have participated in health training

As the programme expanded to India, we partnered with St. John's Medical College to conduct a needs assessment of the health and well-being of supplier employees. Based on assessment findings, we developed and launched a training curriculum to improve health knowledge in key areas. St. John's also provided nutrition consultation that has led to improvements at several supplier cafeterias.

#### Providing new health knowledge in India

60%

increase in knowledge in **nutrition** 

54%

increase in knowledge in diabetes, hypertension and cholesterol

85%

increase in knowledge in early cancer detection

Health Programme participants, iPhone production, India



#### Supplier workplace rights training

# Respect for human rights throughout our supply chain

17.3 M+

supplier employees trained on their workplace rights since 2007 Suppliers are required to ensure that their employees are educated on their workplace rights and that those rights are respected. Supplier employees attend a new hire orientation to receive training on local labour law requirements and the human rights protections outlined in the Supplier Code of Conduct. Topics covered include permissible working hours and overtime policies, proper working and living conditions, and health and safety information.

# Going further in our supply chain for rights awareness

We are committed to help raise awareness of a person's rights at work at every step of our supply chain. This includes communities where minerals in our products may be sourced. In addition to our work to provide vocational education, we have also partnered with Pact to support community leaders, and communities living around mine sites. The programme uses an internationally recognised training curriculum developed by the United Nations International Children's Emergency Fund (UNICEF). Since 2016, rights awareness training has been provided to over 7,000 people living in mining areas.

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### Every employee has a voice

The Code of Conduct requires our suppliers to provide channels that encourage employees to voice concerns. Channels include advertised hotlines for anonymous phone calls and the ability to directly contact Apple's Supplier Responsibility team.

In order to verify the effectiveness of channels, we interview numerous supplier employees during annual assessments in their local language without their managers present.

These interviews seek to ensure that supplier employees have received training and are aware of proper channels to voice concerns.

# Going further to give a voice to mining communities

In 2018, we again supported the Fund for Global Human Rights, an organisation that works with local human rights defenders in the DRC. With this support, the Fund is able to partner with grass-roots organisations that advance the rights of women and children, advocate for miner health and safety, and defend the economic and social rights of mining communities.

We also help enable people in mining communities to raise issues through whistleblowing mechanisms. In 2018, Apple continued supporting the whistleblowing mechanism of the International Tin Association's International Tin Supply Chain Initiative (ITSCI). The whistleblowing initiative allows people to voice concerns related to extraction, trade, handling and the export of minerals, in their local language, so allegations of misconduct can be surfaced and addressed.

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recruitment fees repaid to 36,137 supplier employees by suppliers since 2008

recruitment fees repaid to 287 supplier employees by suppliers in 2018

### Getting a job should be free of charge

Of the millions of people who work at Apple supplier facilities every year, a small percentage are foreign contract workers. A foreign contract worker is a person who seeks employment in a country other than the one of which he or she is a citizen. These individuals can be vulnerable to debt-bonded labour, a form of modern slavery.

Debt-bonded labour occurs when a person is forced to work in exchange for the repayment of a debt or other obligation — sometimes levied as a fee for receiving a job in the first place.

In 2008, we made debt-bonded labour a Core Violation of the Apple Supplier Code of Conduct and limited permissible fees to one month's wages, a standard above legal requirements. In 2015, Apple went even further leading the way in mandating that zero fees can be charged to foreign contract workers for recruitment opportunities, even if those fees fall within the legal limits of the supplier's operating country and legal limits of the supplier employee's origin country. When our Code is not met, we believe direct remedy is required. This includes a supplier repaying any fees paid by their employees to obtain their jobs.

In 2018, we went further to prevent debt-bonded labour in our supply chain, and steps were taken to limit the amount of subcontracting for custodial staff in our retail stores. We also mapped the primary geographic corridors where foreign contract workers enter our supply chain and where they work. As a result, programmes were put in place to strengthen debt-bonded labour prevention in high-risk regions.

In 2018, we also worked closely with suppliers that hire foreign contract workers to implement stricter standards to assess the labour brokers who provide personnel to their facility. These efforts included implementing enhanced training on topics required by our Code, such as conducting worker interviews and self-assessments. This capability building effort enables suppliers to conduct more comprehensive due diligence in their labour supply chain, and to ensure no recruitment fees are charged.

People

### Prevention through education

#### **Before contract**

Suppliers and labour agents are provided with training and tools to make prospective employees aware of local labour laws, contract terms and conditions, and their rights during the hiring process. Prospective employees are also informed of grievance channels — how and where to raise a concern — and Apple's zero tolerance policy against retaliation.

#### Departure from home

Suppliers and labour agents provide new employees with training covering the following topics before they depart from home:

- Contract terms and conditions
- Working and living in the receiving country
- Labour rights and protections during their journey

#### Arrival at receiving country

Topics from departure training are repeated with a stronger emphasis on rules and laws in the employee's receiving country. Health and safety topics also expand to include on-the-job training.

People



2018 Stop Slavery Award awarded by the Thomson Reuters Foundation

# Working to end modern slavery in our supply chain, and beyond

In 2018, Apple was awarded the Thomson Reuters Foundation's Stop Slavery Award.

The Stop Slavery Award recognises companies that have taken concrete steps to eradicate forced labour from their supply chains. The aim is to demonstrate that business plays a critical role in putting an end to modern-day slavery worldwide.

### A path to employment

In 2018, we went further in our commitment and partnered with the International Organization for Migration (IOM) to create a path for trafficking survivors to obtain full-time employment with Apple.

Participants receive counselling, vocational support services and regular medical exams for two years as they adjust to their new employment in an Apple Store.

"We are very pleased that Apple has committed to work with us to help former victims of trafficking get jobs. This new initiative demonstrates how the private sector can take accountability one step further, directly supporting former victims and inspiring other companies to do the same."

Laura Thompson
Deputy Director General, International Organization for Migration

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# Planet

## Greener factories, greener communities

In 2018, 100% of final assembly sites for iPhone, iPad, Mac, Apple Watch, AirPods and HomePod achieved UL Zero Waste certification.

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A water community in Kunshan District, China

# Greener supply chains reach beyond factory walls

Our supply chain environmental programmes encourage suppliers to consider the impact their operations can make outside their factory walls, to the communities that support the making of an Apple product.

Kunshan has evolved from an agricultural hub to becoming the home of dozens of electronics manufacturers, including numerous Apple suppliers. That prosperity wouldn't be possible without the water that flows through neighbouring canals, rivers and lakes. But it will only be sustainable if that water is conserved and protected.

True water stewardship requires industrial users to go beyond their own facilities, and work with partners in government and civil society to protect water supplies on a basin-wide basis.

Apple and its suppliers have partnered with the Alliance for Water Stewardship (AWS), a collaboration between businesses and non-governmental organisations (NGOs), in a programme to support water management beyond the factory and into the community. "Through participation in this programme, Apple's suppliers will become role models and leaders for others to follow," says Michael Spencer, the Chair of the International Board at AWS.

#### "Through participation in this programme, Apple's suppliers will become role models and leaders for others to follow."

In addition to water stewardship, Apple has also moved in recent years to reduce waste generated by product manufacturing, advising suppliers on how to cut all levels of industrial waste from their operations. That's a win-win for the environment and the economy — less waste in the environment means lower costs overall. In 2018, the final assembly facilities for iPhone, iPad, Mac, Apple Watch, AirPods and HomePod became UL Zero Waste certified.

We also consider our supply chain's impact on climate change. A considerable amount of Apple's carbon footprint comes from the supply chain, mostly from the energy used while making Apple products. Apple's Energy Efficiency Programme works with high-energy use suppliers to assess and identify areas where energy waste — and the carbon that comes with it — can be reduced, such as lighting, heating and cooling.

Altogether in 2018 the Energy Efficiency Programme has led to the reduction of 466,000 annualised tonnes of greenhouse gas emissions, equivalent to taking 100,000 cars off the road for one year. And while the greenest energy is the energy you never use, Apple has also committed to working with its suppliers to generate and procure more than 4 gigawatts of renewable energy by 2020, around one-third of the energy needed to make Apple products.

Planet



No.1 ranking, Corporate Information Transparency Index (CITI), fifth year in a row

### No.1, for the fifth year in a row

For the fifth year running, we were awarded the number one ranking in the Corporate Information Transparency Index. The index is a product of the Institute of Public & Environmental Affairs (IPE), a civil society organisation with expertise in environmental protection. The Index ranks hundreds of brands on environmental supply chain performance in China.

For more than five years, Apple and IPE have partnered to create meaningful environmental impacts that extend far beyond our own supply chain. This collaboration has proven to provide positive impacts that we hope to continue in the years to come.

"Over the past five years, Apple has continuously extended management to the upstream supply chain in an innovative way, pushing hundreds of suppliers to save energy and reduce emissions, and improving environmental performance... Sometimes work isn't just within factories — rivers, lakes and canals have been cleaned up, giving local communities a safer and cleaner environment."

Ma Jun Director, Institute of Public & Environmental Affairs

### Water stewardship

# Leading the way

Since 2013, Apple's Clean Water Programme has provided support and education that enables suppliers to conserve water, find ways to reuse or recycle water in manufacturing operations, and ensure that the water discharged from our supplier facilities is as clean as possible.

In the last five years the number of participating suppliers has grown from 13 to 116. In 2018, participating suppliers saved 28.8B litres of freshwater, bringing the total cumulative savings to 79.5B litres. As the programme has scaled, we've worked with participating suppliers to expand efforts from conservation to water stewardship. Using a standard created by AWS, suppliers have begun to extend their efforts outside of their factories, to the communities they operate in.

In 2018, efforts to expand beyond conservation to stewardship began with suppliers in the Kunshan region of China. Participating suppliers committed to stricter water stewardship efforts, extended water programming beyond their factories and engaged their surrounding communities. In 2018, two Apple suppliers received AWS certification, including the first gold certification ever to be awarded in the electronics industry.

As the programme continues, suppliers committing to extend efforts beyond their factory walls will establish a comprehensive water management plan, have a deeper understanding of internal and external water risks associated with their operations, promote better water management practices and awareness throughout their own supply chains, and ultimately help improve the water resources in their region.

Progress



AWS gold certification awarded to an Apple Supplier, representing the first of its kind in the electronics industry

39%

33

participating supplier reuse rate

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#### Safer process chemicals

# Industry-leading standards

Since 2014, we've partnered with suppliers to implement an industry-leading Chemical Management Programme to protect the people who help make Apple products, and the environment. The programme provides support and education that enables participating suppliers to implement a rigorous chemical management system that includes driving transparency about chemical use, volumes consumed, and strengthening safe-use practices.

We continually strengthen and evaluate our Supplier Code of Conduct, and the Apple Regulated Substances Specification (RSS). We also partner with suppliers to provide support and training to help them meet our high standards. In 2018, 500 suppliers participated in training on the RSS.

Material safety data sheets are commonly used to quickly screen chemicals for compliance with restrictions. We go deeper and require suppliers to provide proof of a test report from a certified lab. We also assess new chemicals when they are introduced, and provide support to ensure safe use.

People

#### **Apple Chemical Management Programme**



### 1. Chemical inventory and selection

We work with suppliers to maintain an inventory of the chemicals used in their production process and include the evaluation of preferable alternatives as part of their new chemical introduction process



#### 2. Risk assessment

An evaluation of new or modified production processes is conducted to identify risks of chemical exposures to supply chain employees



#### 3. Risk control

Control measures are implemented to eliminate or mitigate employee exposure to chemicals



### 4. Hazard communication training for employees

Supplier employees are trained on the hazards associated with chemical use and the importance of the control measures that are in place to protect them.

Training is designed to ensure understanding of material safety data sheets, warning labels, and where to get help with questions



#### 5. Management training

We provide tools and programmes to help line supervisors and the factory management be aware of their responsibilities to ensure effective implementation of a safe use of chemicals management system



#### 6. Medical exams

In order to monitor the health of employees who work with chemicals in their manufacturing process duties, suppliers are required to provide access to medical exams conducted by a qualified clinic



### 7. Personal protective equipment training

Employees are trained on the purpose, correct use and maintenance of their personal protective equipment



#### 8. Emergency response

Suppliers are required to develop robust preparedness and response plans in the event of an emergency to ensure the safety of employees

supplier final assembly sites adopted safer, greener cleaners and degreasers



In 2018, Apple was awarded an A+ rating and ranked first out of 40 retailers by Mind the Store for our actions to eliminate toxic chemicals

## Progress towards safer, greener chemicals

We strengthen our chemical management efforts every year to keep our factories, and the people who work in them, safe. In 2018, process chemicals at our final assembly facilities were verified as 100 per cent compliant with Apple's RSS for the fourth year in a row. We continue to enhance the RSS; in 2018, we added n-Propyl Bromide (nPB) to the list of banned chemicals for cleaning and degreasing.

We also encourage safer and greener cleaners and degreasers in our suppliers' operations. Apple provides both training and assessment tools for suppliers to conduct their evaluations of safer alternatives based on the GreenScreen® framework and the US Environmental Protection Agency's Safer Choice Program. In 2018, 36 suppliers achieved the elimination of all GreenScreen Benchmark 1 and Benchmark 2 cleaners and degreasers.

"Apple has set the standard for safer chemical use and they are sharing their process openly for others to follow. By sharing data and best practices in authentic collaboration with other companies, suppliers and NGOs, they are making an impact on industry-wide challenges."

Alisa Gravitz CEO, Green America

People



## Eliminating waste

# Products that add up to zero waste

To minimise our impact on the planet, we provide support and education that enables our suppliers to reduce the amount of waste sent to landfill while manufacturing Apple products.

In 2015, the Zero Waste Programme was created. Through this programme, suppliers must identify waste elimination opportunities. To help our suppliers achieve this objective, we provide tools and guidance, including the services of experts in sustainable waste management solutions. Suppliers dedicate months to identifying ways to reuse or recycle materials and divert waste from landfill. This can result in suppliers not only improving their environmental management systems, but also benefiting from sustained conservation of resources.

Suppliers must demonstrate through a third-party assessment that they meet Zero Waste to Landfill certification through UL (UL 2799 Standard). The UL Standard is a rigorous and comprehensive standard for waste streams from manufacturing environments.

To reach platinum certification, a factory must divert 100 per cent of its waste from landfill, with a maximum of 10 per cent sent to a waste-to-energy facility. To reach gold certification, a factory must divert 95 per cent from landfill. In two cases, Apple suppliers have achieved gold certification because the carbon impacts of shipping recyclable materials long distances outweighed the environmental benefits of landfill diversion.

When the Zero Waste Programme began, suppliers with the most significant waste impact were selected: final assembly facilities where components from all over the world come together to be assembled into Apple products. In 2018, our efforts to achieve a zero waste supply chain reached a significant goal. All final assembly facilities for iPhone, iPad, Mac, Apple Watch, AirPods and HomePod in our supply chain are UL Zero Waste certified.

As our programme progresses, we will continue to work with suppliers deeper in our supply chain to implement zero waste practices and eliminate landfill waste.

1<sub>M</sub>

tonnes of waste diverted from landfill to date

100%

final assembly facilities for iPhone, iPad, Mac, Apple Watch, AirPods and HomePod UL Zero Waste certified

Planet



Film application, iPhone production, China

## **Environmental innovation** in the smallest details

It takes multiple pieces of protective film to cover an Apple product during its journey on the assembly line. Film is placed and removed to help keep products pristine as they come to life. Each piece is small, but it adds up to being a significant portion of the non-recyclable waste generated during assembly.

We set our sights on a solution — finding a new protective film that could be diverted from incineration and, instead, recycled. After conducting research, it became clear that no recyclable protective film was available on the market. This introduced an opportunity for Apple engineering teams to partner closely with a protective film supplier.

The turning point for the project was identifying a combination of adhesive and film that could be recycled together. The result? A cost neutral, recyclable protective film that in its first year of adoption, diverted 895 tonnes of waste from incineration and avoided 1,880 tonnes in carbon emissions from Apple manufacturing. Better yet, the film has also been made available by the supplier for other companies to adopt in their manufacturing processes.

People

Apple supplier facilities designated Green Factory by China's "Green by 2025" manufacturing plan in 2018

## **Green Factories**

In 2018, 12 Apple supplier facilities received the Chinese Government's Green Factory designation, bringing the total number of Apple supplier facilities awarded this designation to 16. Awarded by the Ministry of Information and Industry Technology, the Green Factory designation is part of China's "Green by 2025" manufacturing plan. Launched in 2016, this government initiative has set out to identify 1,000 factories by 2020 that represent best practices in green manufacturing. In addition, we are supporting the China Electronic Standardization Institute as part of the drafting committee for the development of green standards for electronics manufacturing in China.

Line Operators at an iPhone production facility awarded the Green Factory designation, China



People

## Combating climate change

## Doing more with less

Since 2015, we have partnered with suppliers to help improve energy conservation through our Energy Efficiency Programme.

The programme focuses on facilities with the highest energy use and potential for improvement. In-depth energy assessments are conducted to identify areas for improvement at supplier facilities. Suppliers are encouraged to invest in energy-saving technologies and infrastructure, such as lighting upgrades and motion sensors, processed heating and cooling, and compressed air. The assessments provide suppliers with a cost-benefit analysis of the potential return on their investment for implementing energy efficiency improvements.

In 2015, 13 facilities participated in the programme. Today, we've also increased participation to 85 facilities. Participating suppliers implemented energy efficiency improvements resulting in the reduction of 466,000 annualised tonnes of greenhouse gas emissions in 2018.

## Clean, renewable energy

We're also working with our suppliers to transition to using clean, renewable energy in their operations.

Through our Clean Energy Programme, Apple and our suppliers are working to generate and procure more than 4 gigawatts of renewable energy worldwide by 2020 to reduce emissions associated with making Apple products.

Since implementing the programme in 2015, 30 suppliers have made commitments to 100 per cent renewable energy for Apple production. Together with Apple investments and other supplier commitments, we have secured 3.9 gigawatts in clean energy commitments.

Ultimately, our combined efforts will help to reduce product-related carbon emissions, create a more resilient supply chain, and contribute to healthier communities — while also paving the way for others to follow.

annualised tonnes of greenhouse gas emissions reduced in 2018 — equal to 100.000 cars removed from the road for one year

of renewable energy to be procured by 2020

suppliers committed to 100% renewable energy for Apple production

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# Progress

# Partnering with suppliers to drive accountability and continuous improvement

30% increase in high-performing supplier facilities year on year.

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# Apple-managed assessments

770

Apple-managed assessments completed

In 2018, a total of 770 assessments were completed at facilities including manufacturing facilities, logistics and repair centres, and contact centres that support AppleCare. Apple-managed assessments in 2018 covered 93 per cent of Apple's supplier spend. Of these 770 assessments, 17 per cent were initial assessments where we visited facilities for the first time.

We assess supplier performance against the standards outlined in our Supplier Code of Conduct. In our efforts for responsible procurement, we also onboard and assess new suppliers before they enter our supply chain.

An assessment typically takes multiple days. Over 500 criteria are evaluated to ensure compliance and identify improvement areas against our Supplier Code of Conduct.

Following an assessment, we partner with a supplier to develop a corrective action plan to make improvements where needed. Ongoing engagements with our suppliers can include months on the ground working with suppliers, providing training, tools and support to help them meet our standards.

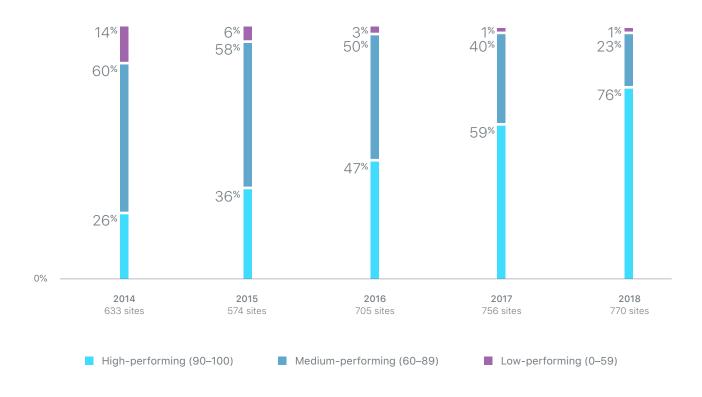
To support capability building, Apple's SupplierCare platform provides information to increase understanding of the Supplier Code of Conduct and educate suppliers on best practices. Tutorials range in topics from safe storage of chemicals to responsibly sourcing minerals. In 2018, SupplierCare expanded to provide online trainings to 219 active supplier facilities.

30%

increase in the number of high performers in our supply chain year on year 86%

decrease in the number of low performers in our supply chain year on year

#### Year-on-year Supplier Code of Conduct performance



#### Our Apple-managed assessment process

The Apple-managed assessment process typically includes a multi-day onsite visit followed by close partnership and capability building to ensure closure of all needed corrective actions. Once all corrections are completed, Apple verifies closure of each action item.



1. Onsite assessment An onsite assessment is conducted to determine compliance with Apple's Supplier Code of Conduct



2. Corrective action plan
We partner with the
supplier to develop a
30-, 60- or 90-day
corrective action plan
for any issues uncovered
during an assessment



3. Closure of corrective actions
If needed, Apple subject matter experts partner with the supplier to implement necessary improvements to meet and close open corrective action plans



4. Onsite corrective action verification
Following completion of the agreed-upon corrective action plan, Apple conducts an onsite verification of all improvements



5. Closure of corrective action assessment
Once it is verified that all improvements have been made, the supplier is returned to our regular assessment schedule



## 2018 Assessment results

Our 2018 supplier progress results cover assessments at manufacturing facilities, logistics and repair centres, retail, and contact centre facilities. Each assessed facility is ranked on a 100-point scale based on its performance relative to our Supplier Code of Conduct.

Through our assessments, we measure the performance of suppliers' operations against our Code and drive improvements in the areas of Labour and Human Rights, Health and Safety, and Environment.

Average 100-point scale score across Apple-managed assessments



## Progress in our mineral supply chain

We're proud to be recognised as a worldwide leader in the responsible sourcing of minerals in our products.

Few companies map the path of materials in their products. Apple maps many materials, including tin, tantalum, tungsten and gold — back to the smelter or refiner and goes even further — tracking some, like cobalt and certain other minerals, all the way back to the source.

2010

In 2010, we became one of the first companies to begin mapping our supply chain to the smelter and refiner level for tin, tantalum, tungsten and gold

2014

In 2014, we were one of the first companies to publish a list of our tin, tantalum, tungsten, and gold smelters and refiners that provide minerals to our suppliers, and we continue to do so every year

In 2014, we began mapping our supply chain for cobalt

2016

Since 2016, our smelter and refiner list has also included cobalt refiners

2018

In 2018, 100% of our identified tin, tantalum, tungsten, gold and cobalt smelters and refiners participated in independent third-party audits for the third year in a row

Apple's Supplier Code of Conduct and Supplier Responsibility Standard on the Responsible Sourcing of Materials (Responsible Sourcing Standard) apply to all levels of Apple's supply chain and are based on industry and internationally accepted principles, such as the United Nations Guiding Principles on Business and Human Rights and the Organisation for Economic Co-operation and Development Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas. Apple is committed to meeting and exceeding internationally accepted standards to safeguard the well-being of people in the supply chain.

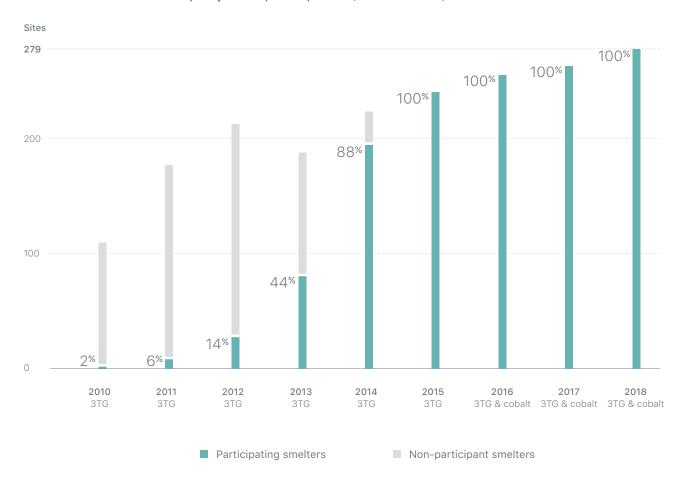
Our independent third-party audits go beyond conflict to consider human rights and other risks. Smelters and refiners are required to report, assess and mitigate risks in their business practices based on the findings of their annual assessments. Additional third-party audits are conducted to verify the data reported and to ensure corrective actions are taken where gaps may exist.

We believe mapping and third-party audits are not enough. We go further in our minerals due diligence programmes which may include:

- Continuing to strengthen implementation of our strict Responsible Sourcing Standard
- Mapping Apple's supply chain to the smelter and refiner level, and to the mine-site level to the extent available, by collecting and processing data provided by suppliers and other sources of information
- Mitigating and addressing risks identified in the minerals supply chain
- Seeking to empower independent voices around certain mining communities
- Expanding programming deeper in the supply chain to a number of mining communities in the DRC through rights awareness and vocational education
- Measuring human rights impacts of industry-wide minerals traceability programmes
- Exploring traceability mechanisms using technology
- Engaging with industry organisations to share best practices and tools such as the Apple Risk Readiness Assessment tool
- Working collectively with civil society, industry and government

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#### Smelter and refiner third-party audit participation (3TG & cobalt)



#### 100-Point Scale Scores



is representative of a high performer



is representative of a medium performer



is representative of a low performer

## A deeper look at our Apple-managed assessment results

## Scoring and deductions

Findings in our assessments are categorised by level of severity:

#### Administrative non-compliance

Denotes policy, procedure, training or communication-related findings.

Examples include:

- Inadequate record keeping
- Inadequate documentation of policy or procedures
- Insufficient training on policy

#### **Violations**

Denote implementation-related findings.

Examples include:

- Insufficient provision of benefits
- Inadequate pre-placement/on-job/post-employment occupational health exams
- Inadequate environmental permits

#### **Core Violations**

A Core Violation is considered the most serious violation against Apple's Supplier Code of Conduct.

Examples of Core Violations include:

- Underage or involuntary labour
- Document falsification
- Intimidation or retaliation against an employee
- Immediate environmental and safety threats

Suppliers are required to immediately remediate a Core Violation. Beyond immediately addressing the violation, suppliers must also make changes in their management system that address the root cause of the violation, and ensure sustained preventative measures to remain an Apple supplier.

If a supplier is unwilling, or unable, to correct a Core Violation, or in the event of a repeat Core Violation, the supplier is removed from Apple's supply chain. To date, 20 manufacturing supplier facilities have been removed from our supply chain. Smelters and refiners deeper in our supply chain are held to similar standards and if they exhibit a lack of commitment to meet our Supplier Code of Conduct, they risk losing Apple's business. In 2018, five 3TG and two cobalt smelters and refiners were removed from our supply chain.

In addition to uncovering violations during assessments, we also take allegations concerning our suppliers very seriously. Allegations concerning a supplier may come from sources including news outlets, a supplier employee or an anonymous individual.

Once a claim is verified, a thorough investigation is conducted and a corrective action plan is immediately required. Apple partners with the supplier to ensure all corrections are made within 90 days.

When allegations occur deeper in our supply chain, such as those related to smelters and refiners who may provide minerals to our supply chain, we investigate the claim and may work with civil society and government to conduct investigations and address the allegation.

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**Progress** 

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**89 out of 100** average Labour and Human Rights assessment score

## Labour and Human Rights assessment results

In 2018, the average Labour and Human Rights score across our 770 assessments was 89.

During an assessment, our suppliers are evaluated on all Labour and Human Rights Protections outlined in our Supplier Code of Conduct. Areas assessed include: anti-discrimination; anti-harassment and abuse; prevention of involuntary labour; human trafficking and underage labour; juvenile and student worker protections; working hours; and wages, and benefits.

In order to score suppliers on these issues, we take an investigative approach during an assessment. Assessment protocols typically require a thorough walk-through of supplier facilities, a review of human resource records, and interviews with supplier employees to ensure adherence to the Code.

## Updates to our Code of Conduct

In 2018, we continued to raise the bar in Labour and Human Rights Standards in our supply chain.

#### Medical testing

Restrictions regarding medical testing were added to protect workers' privacy and prevent unreasonable fees. This change in policy requires suppliers to now pay all fees for necessary medical testing and provide employees access to their medical test results.

#### New and nursing mothers

Protections for new and nursing mothers increased. Suppliers are now required to more closely monitor the working hours of new and nursing mothers, ensure new and nursing mothers are not required to conduct high-risk tasks, and provide adequate nursing rooms onsite at their facilities.

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## Assessment findings

In 2018, the majority of Labour and Human Rights violations found in our assessments were related to working hours violations and improper provision of wages and benefits.

One example of improper provision of wages found in our 2018 assessments included a case of employees being required to pay for their onboarding medical examinations at a facility. When a violation of this type is identified, the supplier is required to return any fees paid to their employees.

A lower percentage of assessment violations were found relating to anti-harassment, prevention of underage labour, and freedom of association and collective bargaining.

#### Labour and Human Rights assessment deductions

		Core Violations	Violations	Administrative Non-Compliance	Total Deductions
$\bigcirc$	Working Hours	- 0.1	- 3.4	- 0.4	- 3.9
\$	Wage, Benefits and Contract	-	- 3.3	- 0.2	- 3.5
$\bigcirc$	Prevention Of Involuntary Labour	- <0.1	- 0.6	- 0.6	- 1.2
2	Protected Class	-	- 0.6	- <0.1	- 0.6
$\neq$	Anti-Discrimination	-	- 0.2	- 0.3	- 0.5
960	Grievance Mechanism	-	- 0.3	- 0.1	- 0.4
×	Anti-Harassment and Abuse	-	- <0.1	- 0.2	- 0.2
	Prevention of Underage Labour	- <0.1	- <0.1	- 0.1	- 0.2
400>	Freedom of Association and Collective Bargaining	-	- <0.1	- <0.1	- 0.1

Average Total Score:



#### **Core Violations**

In 2018, 27 Core Violations were uncovered in Labour and Human Rights; these included 24 Working Hours Falsification Violations, two Debt-Bonded Labour Violations and one Underage Labour Violation.

### **Working Hours Falsification**

If falsification of employee working hours is discovered, the violation is escalated to the supplier CEO and the supplier is placed on immediate probation. The supplier's ethics policy and management systems are then thoroughly reviewed to identify the root causes and systemically correct them. The supplier is required to undergo regular audits to ensure the reviewed policy is implemented to prevent future violations. In addition, the supplier must revise all records to reflect an accurate accounting of hours worked by their employees. In 2018, we uncovered 24 cases of falsification of working hours data. In all cases, suppliers were placed on immediate probation. Our suppliers' compliance for overall working hours for the year was 96 per cent.

#### Working Hours Falsification corrective action process



1. Violation identification Apple assessor and third-party auditor identify Records Falsification Violation



2. Violation

communication
Apple communicates
violation to supplier
CEO and notifies
supplier of immediate
probation. Supplier
signs probation terms



3. Root cause identification
Apple and supplier review supplier's ethics policy and management systems to identify root cause



4. Regular audits
Supplier required to
undergo regular audits
to ensure the reviewed
policy is implemented to
prevent future violations



5. Correct all records Supplier must revise all records to reflect accurate accounting of hours worked by their employees

#### **Debt-Bonded Labour**

Debt-Bonded Labour was determined a Core Violation in Apple's Supplier Code of Conduct in 2008. Since 2015, our Code has enforced a strict zero tolerance policy for fees of any kind, even those within legal limits of operating countries. In 2018, two cases of debt-bonded Labour were uncovered. In each case, the supplier was placed on an immediate one year probation and was required to repay all fees to their impacted employees.

\$616K

supplier recruitment fees repaid to 287 supplier employees in 2018 \$30.9<sub>M</sub>

supplier recruitment fees repaid to 36,137 supplier employees since 2008

#### Debt-Bonded Labour corrective action process



1. Violation identification Apple assessor and third-party auditor identify Debt-Bonded Labour Violation



2. Violation communication Apple communicates violation to supplier senior management



3. Signs terms Supplier signs probation terms and repayment terms



4. Repayment plan Supplier submits repayment plan for Apple approval



**5. Employee payment** Supplier repays their employee



6. Payment
verification
Third-party auditor
verifies repayment
at supplier site

## **Underage Labour**

When underage labour is uncovered, specialised third-party assessors are brought in for an in-depth review of the case. The supplier is required to stop the underage employee from continuing to work and to return him or her safely home. Educational opportunities are presented to the underage employee and his or her guardians.

While the underage employee is attending school, the supplier is required to pay tuition and other associated fees, and must continue to pay his or her wages. Follow-up is conducted to ensure the individual's overall well-being, both at school and at home. Once the student reaches legal working age, the supplier is also required to offer the individual employment.

In 2018, we uncovered one case of Underage Labour. The individual was 15 years and 10 months old, and obtained a job through use of false identification. Once identified, the individual was immediately transported home and enrolled in his or her choice of school while continuing to receive wages from the supplier. Upon reaching legal working age, the individual was given the option to return to work.

#### Underage Labour corrective action process



1. Violation identification Apple assessor and third-party auditor identify Underage Labour Violation



2. Return home Supplier required to immediately provide safe passage home to underage employee



3. Wages paid Supplier required to continue to pay wages to supplier employee until he or she reaches legal working age



4. Education
Supplier required to provide educational opportunity for supplier employee



5. Employment guarantee Supplier required to provide employment opportunity when the individual reaches legal age



**93 out of 100** average Health and Safety assessment score

59

## Health and Safety assessment results

In 2018, the average Health and Safety score across our 770 assessments was 93.

During an assessment, our suppliers are measured on all Health and Safety Protections outlined in our Supplier Code of Conduct. Areas reviewed include occupational health and safety practices and management systems, emergency preparedness and response, and working and living conditions.

## **Updates to our Code of Conduct**

In 2018, we continued to raise the bar in Health and Safety Standards in our supply chain.

#### High-risk tasks

We increased our standards to extend protections to subcontractors performing high-risk work such as operating a hoist or crane. Previously, our standards provided protections to facility employees. By expanding our Code to include subcontractors, our suppliers must establish a management system and emergency response procedure to ensure the safety of every contractor while performing high-risk work.

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Health and Safety Core Violations in 2018 In 2018, the majority of Health and Safety violations found in our assessments were related to occupational health and safety hazard prevention and emergency preparedness.

One example of an occupational health and safety hazard prevention violation found in our 2018 assessments included a supplier not providing appropriate health screenings to its employees who worked in hazardous roles. When a violation of this kind is identified, the supplier is required to improve their management system and enhance employee communication to ensure both pre-placement and post-employment health exams are provided to ensure health and safety.

An example of an emergency preparedness violation found in our 2018 assessments included temporary obstruction of an evacuation passage at a supplier facility. When a violation of this kind is identified, the supplier must retrain their management team and employees in safety awareness and appropriate management of emergency preparedness. The supplier must also develop a plan to improve their internal monitoring process to effectively identify safety issues and address them in a timely manner.

A lower percentage of assessment violations were found relating to health and safety permits, working and living conditions, and incident management.

Health and S	Safety	assessment	deductions
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		Core Violations	Violations	Administrative Non-Compliance	Total Deductions
Occupati Hazard P	onal Health and Safety revention	-	- 3.5	- 0.2	- 3.7
/ /	cy Prevention, ness and Response	-	- 1.8	- 0.6	- 2.4
Health ar	d Safety Permit	-	- 0.8	- <0.1	- 0.8
Working	and Living Conditions	-	- 0.3	-	- 0.3
Incident I	Management	-	- 0.1	-	- 0.1

Average Total Score:







93 out of 100 average Environment assessment score

### **Environment assessment results**

In 2018, the average Environment score across our 770 assessments was 93.

During an assessment, a supplier is evaluated on Environmental Standards outlined in our Supplier Code of Conduct. Areas reviewed include environmental permits and reporting, hazardous waste management, wastewater management, stormwater management, air emissions management and resource consumption management.

## Updates to our Code of Conduct

In 2018, we continued to raise the bar in Environmental Standards in our supply chain.

#### **Resource Consumption Management**

A new Resource Consumption Management Standard was published that requires suppliers to reduce consumption of fossil fuel, water, hazardous substances and natural resources. In order to do so, suppliers must create a management system to quantify, set targets and monitor progress of conservation, reuse, recycling, substitution or other measures.

#### **Air Emissions Management**

New policy in the Supplier Code of Conduct requires suppliers to develop management systems to reduce greenhouse gas emissions in their operations. This new language requires suppliers to review their emission inventory and set targets to reduce emissions through conservation, clean energy or other measures. Targets set by the supplier must include absolute reduction, normalised reduction, or both.

## Assessment findings

In 2018, the majority of Environment violations found in our assessments were related to hazardous substance management, environmental permits and stormwater management.

An example of a hazardous substance management violation found in our 2018 assessments includes one case of a supplier not having proper labelling of their hazardous waste. In order to protect the people who work at supplier facilities, we require clear labelling with correct waste name, potential hazards and safety measures. When a violation of this kind is identified, suppliers are provided with tools and training to correct the non-conformity and ensure employees are retrained to meet our standards.

An example of an environmental permits violation found in our 2018 assessments includes one case of a supplier not obtaining an Environmental Impact Assessment approval from their local Environmental Protection



Environment Core Violations in 2018 Bureau. In this case, the supplier had undergone a production process change but did not get an updated approval through proper channels before the project was put into operation. When a violation of this kind is identified, suppliers are required to seek approval through proper channels and obtain all legally required permits, as well as establish a management system to manage permit issues moving forward.

An example of a stormwater management violation found in our 2018 assessments includes one case of a supplier failing to conduct biannual monitoring of their stormwater management systems. The Supplier Code of Conduct requires frequency of stormwater testing that is beyond applicable legal requirements. When a violation of this kind is identified, suppliers must hire a third-party organisation to collect stormwater samples and conduct stormwater testings in compliance with the Supplier Code of Conduct.

A lower percentage of assessment violations were found relating to wastewater, air emissions and boundary noise management, non-hazardous waste management, and pollution prevention and resource reduction.

#### **Environment assessment deductions**

	Core Violations	Violations	Administrative Non-Compliance	Total Deductions
Hazardous Substance Management	-	- 1.5	- 0.3	- 1.8
Environment Permit	-	- 1.7	-	- 1.7
Stormwater Management	-	- 1.1	- 0.4	- 1.5
Wastewater Management	-	- 0.5	- 0.3	- 0.8
Air Emissions Management	-	- 0.6	- 0.1	- 0.7
(പ്രാ) Boundary Noise Management	-	- 0.2	- 0.1	- 0.3
Non-Hazardous Waste Management	-	- 0.3	- <0.1	- 0.3
Pollution Prevention and Resource Reduction	-	-	- <0.1	- <0.1

Average Total Score:



# Leading by example and sharing our work

When the tools and technology needed to build capability in our supply chain do not exist, we create them. If we find these tools would be helpful for others outside our own supply chain, we share them openly. We work across industries and in the collective to share our progress and promote best practices.

## Sharing Environmental Health and Safety knowledge

In 2014, the Environmental Health and Safety (EHS) Academy was established in partnership with the EHS Center at Nanjing University to develop an intensive curriculum in environmental protection, air pollution, water management, chemical management, emergency preparedness and safety equipment. The EHS Academy developed the professional skills of hundreds of EHS managers at our suppliers, and developed the suppliers' capability to manage and maintain EHS systems onsite.

We are working with the Responsible Business Alliance to open-source this curriculum and make it available online to participating companies and, by extension, EHS managers in supply chains around the world.

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## Working in the collective

Apple also works to make industry-wide progress on responsible minerals sourcing, beyond its own supply chain. In addition to serving on the executive steering committee of the Responsible Minerals Initiative, Apple engages with a broad range of civil society, industry and government experts. In 2018, we partnered with the Enough Project, an international human rights organisation, to convene a series of expert group panels to discuss opportunities to work collectively on innovative approaches to the responsible sourcing of minerals.

We also worked with the International Organization for Migration (IOM) to create a clear roadmap for companies and their suppliers to address human rights allegations related to mineral sourcing in their supply chain. The guidelines were informed by the UN Guiding Principles on Business and Human Rights and clearly outline step-by-step approaches to be taken by companies, assessors, and smelters or refiners to mitigate issues in their sourcing supply chain. They also give a step-by-step process to remedy the issue. The guidelines are publicly available.

In 2018, we transitioned Apple's Risk Readiness Assessment (RRA) tool to an industry-wide platform. In total, 265 companies that were seeking a tool to assess human rights risks in their sourcing supply chains utilised the tool from a diverse set of industries.

Through the Clean Electronics Production Network (CEPN), Apple shares best practices, including our rigorous approach to chemical management, driving transparency in the supply chain, and safer, cleaner substitution. An example of this leadership is funding training videos for CEPN to share with its members and the entire electronics industry.

Additionally, we participate in cross industry collaborations and serve in leadership roles with organisations including the Responsible Business Alliance, its Responsible Labor Initiative, and the Public-Private Alliance for Responsible Minerals Trade.

**Progress** 

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Line Leader, iPad production, China

# Creating a ripple effect that drives change.

Our commitment to people and the planet doesn't end at our supply chain. We seek to be an example for others to follow, openly sharing our progress to accelerate industry-wide change. And we're proud of the global recognition we've received for our efforts. But we know our work will never be done, because we believe that if we aren't finding ways to improve, we aren't looking hard enough.