

HLIB Economics



2.7 The Role of Government in Microeconomics

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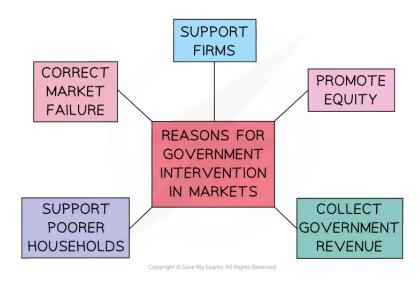


2.7.1 Reasons for Government Intervention in Markets

Your notes

Reasons why Governments Intervene

- Nearly every economy in the world is a mixed economy & has varying degrees of government intervention
- Governments intervention is necessary for several reasons



A diagram showing several reasons for government intervention in mixed economic systems

1. Correct market failure

in many markets, there is a **less-than-optimal allocation** of resources from society's point of view so governments intervene to **influence the level of production or consumption**

- In maximising their self-interest, firms & consumers will not self-correct this misallocation of resources & there is a role for the government
- E.g. Tobacco consumption is an example of market failure that the government has attempted to address by using indirect taxes to reduce consumption

2. Earn government revenue

Governments need money to provide essential services, public & merit goods



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Revenue is raised through intervention such as taxation, privatisation, sale of licenses (e.g. 5G licenses), & the sale of goods/services

Your notes

3. Promote equity

Equity is a normative concept. Governments aim to reduce the **opportunity gap** between the rich & poor but the extent to which it occurs depends on what the society & government believe to be fair. Ways in which equity is promoted include:

- Laws to protect workers e.g. minimum wage laws, health & safety laws
- Laws to prevent monopolies from forming as they result in higher prices
- Laws to prevent environmental damage

4. Support firms

In a global economy, governments choose to **support key industries** so as to help them remain competitive. Ways in which they do this include:

- Providing subsidies or tax breaks
- Limiting foreign competition until new firms are well established & are able to compete internationally

5. Support poorer households

Poverty has multiple impacts on both the individual & the economy

- Intervention through a range redistribution policies such as progressive tax structures & welfare payments helps to reduce poverty
- Four of the most common methods used to intervene in markets are **indirect taxation**, **subsidies**, **maximum prices**, & **minimum prices**



2.7.2 Government Intervention: Indirect Taxes & Subsidies

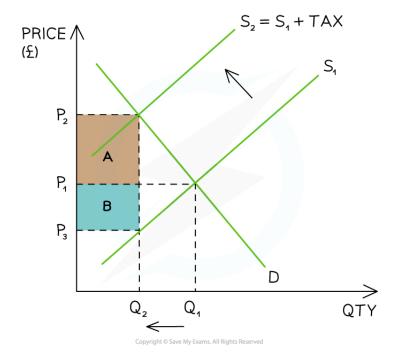


Indirect Taxes

- An indirect tax is paid on the consumption of goods/services
 - It is only paid if consumers make a purchase
 - It is usually levied by the government on demerit goods to reduce the quantity demanded (QD) and/or to raise government revenue
 - Government revenue is used to fund government provision of goods/services e.g education
- Indirect taxes are levied by the government on producers. This is why the supply curve shifts
- An indirect tax can be either ad valorem or specific

1. A Specific Tax

• A specific tax is a fixed tax per unit of output (specific amount) e.g. \$3.25/packet of cigarettes



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The impact of an indirect tax is split between the consumer (A) and the producer (B)

Your notes

Diagram Analysis

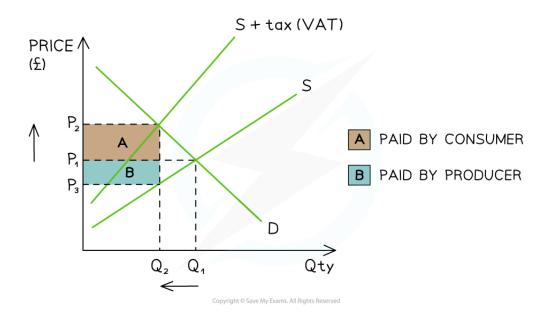
- Initial equilibrium is at P₁Q₁
- The government places a specific tax on a demerit good
 - The supply curve shifts left from $S_1 \rightarrow S_2$ by the amount of the tax
- The price the consumer pays has increased from P1 before the tax, to P2 after the tax
- The price the producer receives has decreased from P1 before the tax to P3 after the tax
- The government receives tax revenue = $(P_2-P_3) \times Q_2$
- **Producers and consumers** each pay a share (**incidence**) of the tax
 - The consumer incidence (share) of the tax is equal to area A: (P₂-P₁) x Q₂
 - The producer incidence (share) of the tax is equal to area B: (P₁-P₃) x Q₂
- New equilibrium is at P₂Q₂
 - Final price is **higher** (P₂) and QD is **lower** (Q₂)
 - If the decrease in QD is significant enough, it may force producers to lay off some workers

2. Ad Valorem Tax

- A tax that is a percentage of the purchase price e.g. Value added tax (VAT) in Columbia in 2022 was 19%
 - The more goods/services consumed, the larger the tax bill
 - This causes the second supply curve to **diverge** from the **original** supply curve
 - VAT raises significant **government revenue**



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A diagram showing an ad valorem tax (VAT) and the tax incidence for producers and consumers

Diagram Analysis

- Initial equilibrium is at P₁Q₁
- The government places an **ad valorem tax** to raise government revenue
 - Supply shifts left due to the tax from S → S + tax
 - The two supply curves **diverge** as a percentage tax means **more tax** is paid at **higher prices**
- The **price the consumer pays has increased** from P₁ before the tax, to P₂ after the tax
- The price the producer receives has decreased from P_1 before the tax to P_3 after the tax
- The government receives tax revenue = $(P_2-P_3) \times Q_2$
- Producers and consumers each pay a share (incidence) of the tax
 - The consumer incidence (share) of the tax is equal to area A: (P₂-P₁) x Q₂
 - The producer incidence (share) of the tax is equal to area B: (P₁-P₃) x Q₂
- New equilibrium is at P₂Q₂
 - Final price of goods/service is **higher** (P₂) and QD is **lower** (Q₂)



• If the decrease in QD is significant enough, it may force producers to lay off some workers

Your notes

EXAMINER TIP

When drawing this diagram, students often find it hard to identify the three price points.

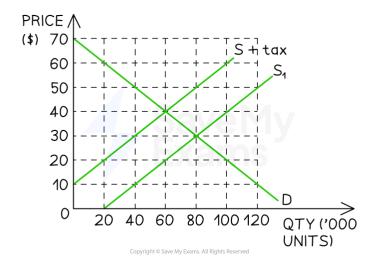
The tax incidence boxes are formed by drawing the new equilibrium quantity through the original supply curve. The three price points are the old equilibrium point, the new equilibrium point - and where the new quantity crosses the original supply curve.

Irrespective if you are dealing with taxes or subsidies, always use the new equilibrium point to determine your incidence boxes.

The consumer incidence is paid from the consumer surplus area and the producer incidence is paid from the producer surplus area.

WORKED EXAMPLE

Refer to the graph below and answer the questions that follow.



Answers:

a) The Government imposes a tax of £20 on a product. Calculate the tax revenue collected by the government [2]

- The per unit tax = £20
- The quantity traded with the tax is 60,000 units
- The total tax revenue gained by the government = £20 x 60,000 units (1 mark)

= $\pm 1,200,000$ (2 marks for the correct answer)

Your notes

b) Calculate the incidence of tax paid by the producer [2]

- Consumers used to pay £30 for the product
- They pay £40 with the tax £10 extra
- The tax incidence for consumers = £10 x 60,000 units (1 mark)
- = $\pm 600,000$ (2 marks for the correct answer)

c) Calculate the change in consumer spending after the imposition of the tax [2]

- Before the tax, consumers paid £30 for the product and 80,000 units sold
 - Consumer Expenditure = £2,400,000
- After the tax, consumers paid £40 for the product and 60,000 units sold
 - Consumer expenditure = £2,400,000
- There is no change in consumer expenditure (1 mark + 1 mark for any correct working)

d) Calculate the deadweight loss caused by the imposition of the tax [2]

- The deadweight loss is the loss of consumer and producer surplus
- It is equivalent to the area of the triangle that forms between the new equilibrium quantity and the old equilibrium quantity

$$= \frac{b \times h}{2} = \frac{80\ 000 - 60\ 000 \times 40 - 20}{2} \ \text{(1 mark)}$$

$$= \frac{20\ 000 \times 20}{2} = £\ 200\ 000^{\text{(1 mark)}}$$

e) Calculate the producer surplus after the imposition of the tax [2]

- Producer surplus is the area above the supply curve but under the price producer receive
- Producers receive £20 as the government receives the balance of the purchase price of £40 which represents the tax
- The producer surplus can be calculated by using the formula to calculate the area of a trapezium

$$= \frac{a+b}{2} \times h = \frac{20\ 000 + 60\ 000}{2} \times 20^{(1\ \text{mark})}$$

= £ 800 000 (1 mark)

An Evaluation of Indirect Taxes

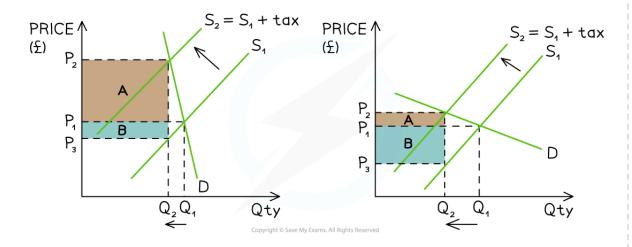
The Advantages and Disadvantages of Indirect Taxes

Advantages	Disadvantages
 Raises the price and reduces the quantity demanded of demerit goods 	 The effectiveness of the tax in reducing the use of demerit goods depends on the price elasticity of demand (PED)
 Reduces external costs of consumption and production 	 Many consumers who purchase products that are price inelastic in demand will continue to do so
 Raises revenue for government programs 	 It may help create illegal markets as consumers seek to avoid paying the taxes
	 Producers may be forced to lay off some workers as output falls due to the higher prices



A side by side Comparison of the Impact of PED on Tax Incidence

- Aiming to maximise their profits, producers pass on as much of the indirect tax as they can to consumers and pay the balance themselves
- The amount passed on to consumers depends on the price elasticity of demand (PED) of the product



A diagram that demonstrates the tax incidence for a product whose PED is inelastic (left) and elastic (right). A is the consumer incidence and B is the producer incidence

Diagram Analysis



1. In both diagrams

- The specific tax shifts the supply curve from $S_1 \rightarrow S_2$
- There is a higher market price at P₂ and lower QD at Q₂
- Tax revenue for the government is the sum of A+B
- Consumer incidence is represented by A and producer incidence by B
- Total revenue for the seller is calculated using P₃ X Q₂
- The difference in PED results in a different steepness to the demand curve

2. For an inelastic product (e.g. cigarettes)

- The curve is steep
- Producers pass on a much higher proportion of the tax to consumers (A) and pay the rest themselves (B)
- The QD decreases $(Q_1 \rightarrow Q_2)$ but by a much smaller proportion than the increase in price $(P_1 \rightarrow P_2)$

3. For an elastic product (e.g. pizza)

- The curve is much flatter
- Producers pass on a much smaller proportion of the tax to consumers (A) and pay the rest themselves (B)
- The **QD** decreases $(Q_1 \rightarrow Q_2)$ but by a much larger proportion than the increase in price $(P_1 \rightarrow P_2)$

EXAMINER TIP



When asked to evaluate the impact of a tax in a particular market, it is essential to apply knowledge of PED to the impact it will have on producers, consumers and the government.

It should be obvious from the context if the product in question is elastic or inelastic in demand. If not, work through the factors that determine PED and make a judgement as to whether the product is **elastic or inelastic** in demand. In your answer, explain your reasoning.

Subsidies

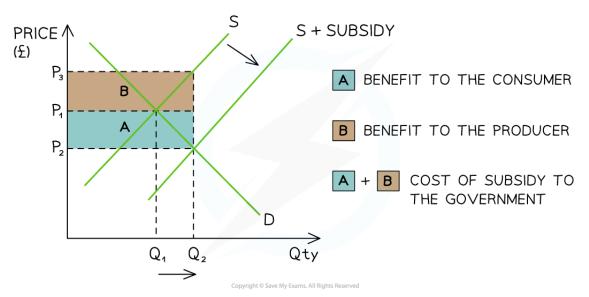
- A producer subsidy is a per unit amount of money given to a firm by the government
 - To increase production
 - To increase the provision of a merit good

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- The way a subsidy is shared between producers and consumers is determined by the price elasticity
 of demand (PED) of the product
 - Producers keep some of the subsidy and pass the rest on to the consumers in the form of lower prices





A diagram which demonstrates the cost of a subsidy to the government (A+B) and the share received by the consumer (A) and producer (B)

Diagram Analysis

- The original **equilibrium** is at **P**₁**Q**₁
- The subsidy shifts the supply curve from S → S + subsidy
 - This increases the QD in the market from $Q_1 \rightarrow Q_2$
 - The **new** market **equilibrium** is P₂Q₂
 - This is a **lower price** and **higher QD** in the market
- Producers receive P₂ from the consumer PLUS the subsidy per unit from the government
 - Producer revenue is therefore P₃ x Q₂
 - **Producer share** of the subsidy is marked B in the diagram
- The subsidy **decreases the price** that consumers pay from $P_1 \rightarrow P_2$
 - Consumer share of the subsidy is marked A in the diagram



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■ The total cost to the government of the subsidy is (P₃ - P₂) x Q₂ represented by area A+B

EXAMINER TIP

()

Your notes

Memorise the distinction below as students get very confused when answering questions on subsidies.

When dealing with a **subsidy**, the **producer benefit is now the top portion of the incidence area and consumer incidence is below.** This can be confusing as in all other diagrams, it is the other way around (surplus, indirect tax etc.)

Logically, it makes sense. Producers are given an extra amount of money **for each unit** by the government so this raises the **sales revenue** they receive, while at the same time **lowering the price consumers pay**.

WORKED EXAMPLE



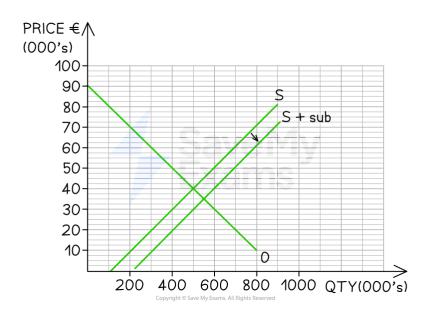
The table below contains the demand and supply schedule for the electric vehicle market in Luxembourg (prior to any subsidies)

Price (€ 000s)	Qd (000s)	Qs (000's)
10	800	200
20	700	300
30	600	400
40	500	500
50	400	600
60	300	700
70	200	800
80	100	900

Answers:

a) The government introduces a subsidy of €10,000 per vehicle. Draw the supply and demand graph together with the new curve which includes the subsidy [3]





Your notes

 $(1 \, \text{mark for accurate labels}; 1 \, \text{mark for correctly drawn demand and supply curve}; 1 \, \text{mark for correct shift of supply curve})$

b) Calculate the total cost to the government of providing the subsidy [2]

- 550,000 EVs sell with the subsidy (1 mark)
- Each EV is subsided at €10,000
- The total cost to the government is €10,000 x 550,000 = €5,500,000,000 (1 mark)

An Evaluation of Subsidies

The Advantages and Disadvantages of Producer Subsidies

Advantages	Disadvantages
 Can be targeted to helping specific domestic industries Lowers prices and increases demand for merit goods Helps to change destructive consumer behaviour over a longer period of time e.g. subsidising electric cars makes them 	 Distorts the allocation of resources in markets e.g. it often results in excess supply when used in agricultural markets There is an opportunity cost associated with the government expenditure - could the money have been better used elsewhere?



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affordable and helps motorists to see them as an option for the masses, not just the wealthy

- Can be used to help domestic firms compete internationally
- Subsidies are prone to political pressure and lobbying by powerful business interests e.g. most oil companies receive subsidies from their respective governments (despite making \$billions in profits each year)
- Subsidies can disincetivise firms from becoming more efficient or competitive.
 They provide extra funds which reduce the need to be more competitive



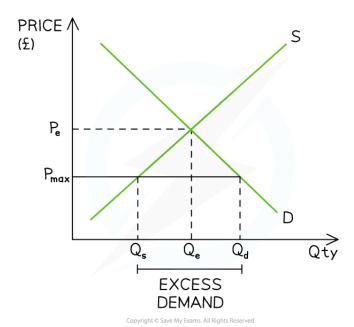


2.7.3 Government Intervention: Price Controls

Your notes

Price Ceilings (Maximum Prices)

- Price controls are used by governments to influence the levels of production or consumption
- Two types of control are commonly used: maximum price (price ceiling) and minimum price (price floor)
- A **price ceiling** is set by the government **below** the existing **free market equilibrium price** and sellers cannot legally sell the good/service at a higher price
- Governments will often use **price ceilings** in order to help **consumers**
 - Sometimes they are used for long periods of time, e.g. to keep rents lower in housing rental markets
 - Other times, they are **short-term solutions** to unusual price increases, e.g. petrol



The price ceiling (P_{max}) sits below the free market price (P_e) and creates a condition of excess demand (shortage)



Diagram Analysis

- The initial market equilibrium is at P_eQ_e
- A price ceiling is imposed at P_{max}
 - The lower price **reduces the incentive to supply** and there is a contraction in quantity supplied (QS) from $Q_e \rightarrow Q_s$
 - The lower price increases the incentive to consume and there is an extension in quantity demanded (QD) from Q_e → Q_d
 - This creates a condition of **excess demand** equal to Q_sQ_d

Key points to note on consumer surplus

- When price ceilings are used, they create a condition of excess demand. In the longer term, suppliers will adjust to this situation and supply less (Q_s) , so this actually decreases the overall consumer surplus
 - For those individual consumers who are able to purchase the good at the lower price, their consumer surplus increases
 - But many consumers are unable to purchase the product any more, so the overall value of consumer surplus in the market decreases
- To calculate consumer surplus after the price ceiling, using the trapezoid formula often is the quickest way to determine the correct value
 - In the worked example below, there is a visual representation of calculating the area of a trapezoid (shaded pink area) where **a** is the length of one side, **b** the length of the other side and **h** is the height between the two sides.

WORKED EXAMPLE

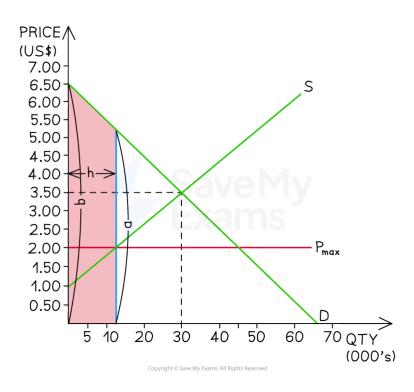
In order to support consumers during a two week festive period in Indonesia, the government has set a price ceiling (Pmax) on chicken at \$2 per kilogram for this period.





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Answers:

a) Using the graph, calculate the change in the consumer surplus resulting from this government intervention. [2]

Step 1: Calculate the consumer surplus before the policy

Consumer surplus before the policy =
$$\frac{30,000 \times 3.50}{2}$$

Consumer surplus before the policy =
$$$52,500$$

(1 mark)

Step 2: Calculate the consumer surplus after the policy

Remember! Theory states that suppliers do not supply past the intersection of Pmax and Qty



Consumer surplus after the policy = Area of the trapezoid

Consumer surplus after the policy = $\frac{a + b}{2} \times h$

Consumer surplus after the policy = $\frac{6.5 + 5.25}{2}$ x 12,000

Consumer surplus after the policy = \$70,500

(1 mark)

Your notes

Step 3: Calculate the difference between old and new consumer surplus

The change in consumer surplus = \$70,500 - \$52,500

= \$18,000 (1 mark)

b) As this is a short term policy, assuming suppliers continue to meet demand, calculate the change in supplier revenue as a result of this policy. [3]

Step 1: Calculate the original sales revenue

Sales revenue = price x quantity

Sales revenue = $$3.50 \times 30,000 \text{ (1 mark)}$

Sales revenue = \$105,000

Step 2: Calculate the sales revenue assuming suppliers meet demand

Sales revenue = price x quantity

Sales revenue = $$2.00 \times 45,000 \text{ (1 mark)}$

Sales revenue = \$90,000

Step 3: Calculate the difference between the two

Change in sales revenue = \$90,000 - \$105,000

Change in sales revenue = - \$ 15,000 (1 mark)

EXAMINER TIP

(3)

Remember, when price ceilings are used, they create a condition of excess demand. In the longer term, suppliers will adjust to this situation and supply less, so this actually decreases the overall consumer surplus. For those individual consumers who are able to purchase the good at the lower



price, their consumer surplus increases. But many consumers are unable to purchase the product any more, so the overall value of consumer surplus in the market decreases.



An Evaluation of Price Ceilings

The Advantages and Disadvantages of Using Price Ceilings (Maximum Prices)

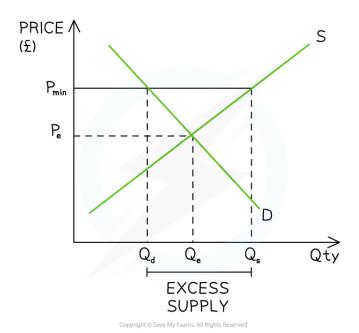
Advantages	Disadvantages
 Some consumers benefit as they purchase at lower prices. For these consumers their consumer surplus increases Price ceilings can stabilise markets in the short-term during periods of intense disruption e.g. Covid supplies at the start of the pandemic 	 Some consumers are unable to purchase due to the shortage Producers lose out as the price is below what they would usually receive: their producer surplus falls The unmet demand usually encourages the creation of illegal markets (black/grey markets) as desperate buyers turn to illegal bidding Maximum prices distort market forces and therefore can result in an inefficient allocation of scarce resources e.g. price ceilings of housing rentals in the property market create a shortage When used in necessity markets, Governments may be forced to intervene further by supplying the good/service themselves in order to meet the excess demand

Price Floors (Minimum Prices)

- A price floor (minimum price) is set by the government above the existing free market equilibrium price and sellers cannot legally sell the good/service at a lower price
- Governments will often use price floors in order to help producers or to decrease consumption of a demerit good e.g. alcohol







The imposition of a price floor (P_{min}) above the free market price (P_e) creates a condition of excess supply (surplus)

Diagram Analysis

- The initial market equilibrium is at P_eQ_e
- A price floor is imposed at P_{min}
 - $\blacksquare \quad \text{The higher price increases the incentive to supply} \text{ and there is an extension in QS from } Q_e \to Q_s$
 - The higher price decreases **the incentive to consume** and there is a contraction in QD from $Q_e \rightarrow Q_d$
 - This creates a condition of excess supply equal to Q_dQ_s

An Evaluation of Price Floors

The Advantages and Disadvantages of Using Price Floors (Minimum Prices) in Product Markets

Advantages	Disadvantages
 In agricultural markets, producers benefit as they	 It costs the government to purchase
receive a higher price (Governments will often purchase	the excess supply and an



the **excess supply** and store it or export it)

- When used in demerit markets, output falls (Governments will not purchase the excess supply of a demerit good)
- Producers usually lower their output in the market to match the QD at the minimum price and this helps to reduce the external costs

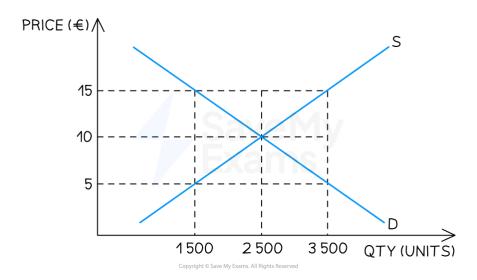
- opportunity cost is involved
- Farmers may become overdependent on the Government's help
- Producers lower output which may result in an increase in unemployment in the industry



WORKED EXAMPLE



The French government has imposed a minimum price on the market for butter. Refer to the graph below and answer the questions that follow



Answers:

a) From the three price points, identify which price point would represent the price floor [1]

- €15
- (The price floor is always above the market price)

b) Explain the impact on the market of the imposition of this price floor [2]

It creates a condition of excess supply (1 mark)



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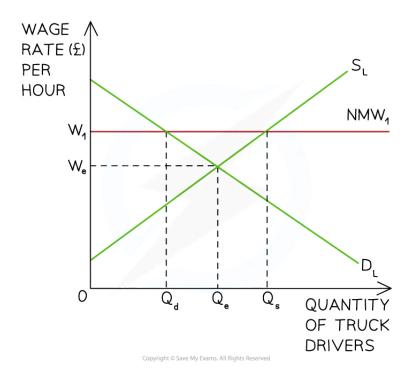
 With consumers demanding only demanding 1,500 units and producers supplying 3,500 units, the excess supply = 2,000 units (1 mark)



- c) Calculate the change in producer revenue after the imposition of the price floor [3]
 - Producer revenue before the price floor = €10 x 2,500 = €25,000 (1 mark)
 - Producer revenue after the price floor = €15 x 1,500 = €22,500 (1 mark)
 - Producer revenue has decreased by €2,500 (1 mark)

Price Floors (Minimum Prices) in Labour Markets

- Minimum prices are also used in the labour market to protect workers from wage exploitation
- A national minimum wage (NMW) is a legally imposed wage level that employers must pay their workers
 - It is set **above** the market rate
 - The minimum wage/hour usually varies based on age



A national minimum wage (NMW₁) is imposed above the market wage rate (W_e) at W_1



Diagram Analysis

- The **demand for labour (D_L)** represents the demand for workers by firms
- The **supply of labour (S_L)** represents the supply of labour by workers
- The $market\ equilibrium\$ wage & quantity for truck drivers in the UK is seen at W_eQ_e
- The UK government imposes a **national minimum wage** (NMW) at **W**₁
- Incentivised by higher wages, the **supply of labour increases** from Qe to Qs
- $\blacksquare \quad \text{Facing higher production costs, the } \textbf{demand for labour} \text{ by firms } \textbf{decreases} \text{ from } Q_e \text{ to } Q_d$
- This means that at a wage rate of W₁ there is excess supply of labour & the potential for unemployment equal to Q_dQ_s

An Evaluation of Minimum Wages

The Advantages and Disadvantages of using Minimum Wages in Labour Markets

Advantages	Disadvantages
 Guarantees a minimum income	 Raises the costs of production for firms who may respond
for the lowest paid workers	by raising the price of goods/services
 Higher income levels help to	 If firms are unable to raise their prices, the introduction of a
increase consumption in the	minimum wage may force them to lay off some workers
economy	(increase unemployment)
 May incentivise workers to be more productive 	





2.7.4 Government Intervention: Direct Provision, Regulation & Nudges

Your notes

Direct Provision of Services

- Many public goods and services **improve the lives** of a country's population
- Governments often provide services to improve the level of equity e.g. healthcare services ensure everyone can access the same medical treatment

An Explanation and Evaluation of the State Provision of Public Services

Explanation	Advantages	Disadvantages
 Public goods are beneficial for society and are not provided by private firms due to the free 	 They are usually provided free at the point of consumption 	 Paid for through general taxation
 rider problem Examples include roads, parks, lighthouses, national defence 	 Accessible to everyone regardless of income 	 There is an opportunity cost associated with their provision Products which are free may
	 Usually provide both private and external benefits to society 	result in excess demand and long waiting times e.g. procedures at Public hospitals

Regulation & Legislation

- Legislation is the process of creating laws
- **Regulation** is the process of monitoring and enforcing the laws
- The use of legislation and regulation are referred to as command and control as it involves ongoing government intervention

An Explanation & Evaluation of Government Regulation & Legislation



Explanation	Advantages	Disadvantages
 Governments create rules (laws) to limit harm from the external costs of consumption/production 	 Individuals or firms may be fined/imprisoned for breaking the rules e.g. selling cigarettes to minors is a punishable offence 	 Enforcing laws requires the government to hire more people to work for the regulatory agencies
They often create regulatory agencies to monitor that the rules are not broken	 They help to reduce the external costs of demerit goods Fines can generate extra government revenue 	 Enforcing laws can be difficult as it is a complex process to determine if firms/consumers are breaking the laws The regulation may create underground (illegal) markets which could generate even higher external costs on society



Government Intervention Using Consumer Nudges

- Governments intervene in markets **using consumer nudges** as a way to influence individual behaviours and choices without implementing strict regulations
- Consumer nudges are designed to guide people towards certain decisions or actions while still allowing them to have freedom of choice
 - These interventions are typically based on behavioural economics principles and aim to nudge individuals towards decisions that are considered beneficial for themselves and society as a whole
- Consumer nudges should be designed with transparency, respect for individual autonomy, and clear societal benefits in mind
 - Ethical considerations should be taken into account to ensure that interventions are not manipulative or coercive

Examples of Nudging Methods used by Governments



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Method	Explanation	Example
Provision of Information	 Governments can provide information to consumers in a clear and accessible manner to help them make more informed choices 	 This may include labelling products with nutritional information, energy efficiency ratings, or environmental impact labels
Default Options	■ Default options are pre-selected choices that people tend to stick with if they don't actively make a different choice	 The UK Driving License Agency sets organ donation as the default option unless individuals explicitly opt out This nudges individuals towards donation without infringing on their autonomy
Framing and Presentation	 Governments may use framing techniques to highlight the positive aspects or consequences of certain choices 	 Governments often run public health campaigns promoting the consumption of fruits and vegetables by framing them as essential for maintaining a healthy lifestyle Cigarette packages in many countries are required to display graphic warning labels that highlight the health risks associated with smoking, aiming to deter individuals from starting or continuing the habit
Incentives and Disincentives	 Governments can use incentives and disincentives to encourage or discourage specific behaviours 	 France offers subsidies for purchasing electric vehicles and imposes very high taxes on polluting diesel vehicles
Social Norms & Peer Influence	 People's behaviour is often influenced by social norms and the behaviour of others Public campaigns that showcase positive role models or highlight the majority engaging in socially responsible actions can nudge 	 On the Singapore Mass Rapid Transit system, users are encouraged to report MRT rule violations, such as littering or eating on trains These campaigns often feature messaging that appeals to individuals'





	individuals towards similar behaviour	desire to conform to social norms and contribute to a cleaner community.
Feedback and Reminders	 Governments can implement strategies such as energy usage reports to help individuals understand and reduce their energy consumption Governments may also send letters to encourage preventive healthcare 	 Electricity bills in Singapore include a chart which shows customers what the 'normal' usage is in their block of flats This encourages households to reduce their electricity consumption to match that of their housing peers



An Evaluation of Government's Using Nudge to Influence Behaviour

ADVANTAGES

- · COST EFFECTIVE
- PRESERVES FREEDOM OF CHOICE
- · IMPROVED PUBLIC HEALTH
- BETTER DECISION MAKING
- IMPROVED SUSTAINABILITY

DISADVANTAGES

- ETHICAL CONCERNS
- · LACK OF TRANSPARENCY
- UNINTENDED CONSEQUENCES
- VARIABLE SUCCESS RATES

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The advantages and disadvantages of using nudge to influence behaviour

The Advantages

- Cost effective
 - Relatively low-cost compared to other policy measures
- Preserves freedom of choice



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 Steers individuals towards certain choices while still allowing them to retain their freedom of choice

Your notes

Improved public health

 Nudges can be used effectively to encourage healthier behaviours such as exercising, eating nutritious food, or quitting smoking

Better decision making

 Helps individuals make better decisions by simplifying complex information, providing reminders, or structuring choices

Environmental sustainability

 By influencing individual choices in a subtle way, governments can contribute to broader environmental goals without imposing strict regulations

The Disadvantages

Ethical concerns

- Some critics argue that nudges can be manipulative, as they rely on influencing behaviour without individuals being fully aware of the intervention
- This raises ethical concerns about autonomy, consent, and the potential for abuse by governments

Lack of transparency

 Nudges often operate behind the scenes, making it difficult for individuals to understand or question the influences shaping their choices

Unintended consequences

 As citizens become used to government's using nudge, they may well begin looking for it and actively work against the nudges e.g. In the UK more people now look for automatic inclusion in organ donor databases and quickly select the non-default option

Variable success rates

• Nudges may not be equally effective for all individuals due to differences in cognitive biases, cultural backgrounds, or personal circumstances