

```
<!DOCTYPE html!>
<"html lang="en">
<head>
<"meta charset="UTF-8>
<title>Safety, Lasers & Processes – 80 Questions</title>
<style>
    -body{font-family:'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;background:#eef1f7;margin:0;padding:0;direction:ltr}
    -header{background:linear-gradient(135deg,#1e3c72,#2a5298);color:#fff;text-align:center;padding:30px 20px;box-shadow:0 2px 10px rgba(0,0,0,0.2)
        {header h1{margin:0;font-size:28px}
        header p{margin:8px 0 0;font-size:16px;opacity:0.9.
    container{max-width:900px;margin:20px auto;background:#fff;padding:20px;border-radius:10px;box-shadow:0 2px 15px rgba(0,0,0,0.1-}
    -q{border:1px solid #ddd;border-radius:8px;padding:15px;margin-bottom:15px;background:#f9fafc;transition:0.3s
        {qtitle{font-weight:bold;margin-bottom:10px;font-size:17px;color:#333.
    /* حالات الإجابة */
    q.correct{border-left:6px solid #4caf50; background:#f0f9f0.
    q.wrong{border-left:6px solid #f44336; background:#fff5f5.
    {feedback{margin-top:10px;font-weight:bold;font-size:15px.
        {correctText{color:#2e7d32.
        {wrongText{color:#c62828.
    -options label{display:block;padding:8px;cursor:pointer;border-radius:4px;transition:0.2s
        {options label:hover{background:#f0f2f5.
```

```
((options input{margin-right:10px; transform: scale(1.1.  
/* ===== زر النتيجة المطور ===== */  
{ ;result-section { text-align: center; margin: 40px 0; padding-bottom: 50px.  
} scoreBtn#  
;(background: linear-gradient(135deg, #1e3c72, #2a5298  
;color: white; border: none; padding: 16px 45px  
;font-size: 20px; font-weight: bold; border-radius: 50px; cursor: pointer  
;box-shadow: 0 4px 15px rgba(30, 60, 114, 0.3); transition: all 0.3s ease  
{  
,scoreBtn:hover { transform: translateY(-3px); box-shadow: 0 8px 25px rgba(30, 60#  
{ ;(0.4 ,114  
}  
}  
} finalResultBox#  
;max-width: 600px; margin: 25px auto; padding: 30px; background: white  
;border-radius: 15px; border: 3px solid #1e3c72; display: none  
;text-align: center; animation: fadeln 0.6s ease  
{  
;keyframes fadeln { from { opacity: 0; transform: translateY(20px); } to { opacity: 1@  
{ { ;(transform: translateY(0  
<style/>  
<head/>  
<body>  
  
<"div class="header">  
<h1>Safety, Lasers & Processes – Comprehensive Quiz</h1>  
<p>80 Questions • Labels • Safety • Lasers • Materials • Processes</p>  
<div/>
```

```
<div class="container" id="quiz"></div>

<"div class="result-section">
<button id="scoreBtn">Show My Final Score</button>
<div id="finalResultBox"></div>
<div/>

<script>
] = const questions
/* ===== HAZARD LABELS – 10 (1 ===== */
t:"Which label means TOXIC?",o:["Skull and crossbones","Flame","Explosion","Black"]
,{X"],c:0
t:"Which label means CORROSIVE?",o:["Test tubes on hand and surface","Flame over"]
,{circle","Skull and crossbones","Explosion"],c:0
t:"Which label means HIGHLY FLAMMABLE?",o:["Flame","Explosion","Flame over"]
,{circle","Black X"],c:0
t:"Which label means EXPLOSIVE?",o:["Explosion symbol","Flame","Skull and"]
,{crossbones","Test tubes on hand"],c:0
t:"Which label means HARMFUL?",o:["Black X","Skull and"]
,{crossbones","Flame","Explosion"],c:0
t:"Which label means OXIDIZING?",o:["Flame over a circle","Flame","Explosion","Black"]
,{X"],c:0
t:"A skull and crossbones symbol warns that a substance}
,{is:",o:["Toxic","Oxidizing","Corrosive","Flammable"],c:0
t:"A test tube pouring liquid on a hand warns that a substance}
,{is:",o:["Corrosive","Explosive","Harmful","Oxidizing"],c:0
t:"A flame over a circle symbol warns that a substance}
,{is:",o:["Oxidizing","Toxic","Harmful","Explosive"],c:0
,{t:"A black X symbol usually means:",o:["Harmful","Toxic","Explosive","Corrosive"],c:0}
```

/* ===== SAFETY INSTRUCTIONS – 10 (2 ===== */

t:"What should you wear at all times according to the safety} instructions?",o:["Protective clothing","Sportswear","Casual clothes","No special ,{clothing"],c:0

t:"When operating lathes, cutters and grinders, you must:",o:["Wear eye protection} and ensure the guard is in place","Work faster","Remove all guards","Close your ,{eyes"],c:0

t:"How should your workplace be kept?",o:["Tidy","Crowded","Dirty","Full of tools on} ,{the floor"],c:0

t:"The areas between benches and around machines must be:",o:["Kept clear","Used} ,{for storage","Filled with tools","Blocked"],c:0

t:"What should be done with tools when not in use?",o:["Put away and breakages} ,{reported","Left on the floor","Hidden","Thrown away"],c:0

t:"Machines should be:",o:["Cleaned after use","Left dirty","Never cleaned","Cleaned} ,{once a year"],c:0

t:"Safety gear exists for:",o:["Every danger","Only big dangers","Only chemical} ,{dangers","Only electrical dangers"],c:0

t:"Each year people are injured because they:",o:["Refuse or forget to wear the right} ,{gear","Work too slowly","Read instructions","Clean machines"],c:0

t:"Why are labels and safety instructions important?",o:["For your protection","For} ,{decoration","For advertising","For fun"],c:0

t:"Keeping the workplace tidy helps to:",o:["Prevent accidents","Increase noise","Hide} ,{tools","Block exits"],c:0

/* ===== LASERS – 25 (3 ===== */

t:"LASER stands for:",o:["Light Amplification by Stimulated Emission of} Radiation","Light Absorption by Strong Electric Radiation","Low Amplified Signal ,{Emission of Rays","Long Area Signal Emission of Radiation"],c:0

t:"Laser beams are described as:",o:["Intense, directional and pure in color","Weak} ,{and scattered","Random and dim","Invisible and cold"],c:0

t:"Lasers can be:",o:["Solid state, gas, semiconductor or liquid","Only gas","Only} ,{solid","Only liquid"],c:0

,{t:"Lasers were invented in:",o:["1960","1950","1970","1980"],c:0}

t:"Some people first thought lasers could be used as:",o:["Death}

,{rays","Flashlights","Radios","Televisions"],c:0

t:"In the 1980s, the United States experimented with lasers as:",o:["Defence against}
,{nuclear missiles","Car headlights","Street lights","Medical scanners"],c:0

t:"Nowadays, in the military, lasers are used to:",o:["Identify targets","Cook}
,{food","Cool engines","Replace radios"],c:0

t:"In engineering, powerful laser beams can:",o:["Heat, melt or vaporize}
,{material","Freeze water","Create wind","Produce sound"],c:0

t:"Laser beams can be used for:",o:["Spot welding","Painting walls","Cooling}
,{metals","Mixing liquids"],c:0

t:"Laser surfacing techniques include:",o:["Hardening aircraft engine turbine}
blades","Cooling turbine blades","Painting turbine blades","Cleaning turbine
,{blades"],c:0

t:"Lasers can also be used to:",o:["Measure and align structures","Paint}
,{buildings","Move buildings","Destroy roads"],c:0

t:"Lasers are ideal for communications in space because:",o:["They can carry many}
more information channels than microwaves","They are heavier than air","They are
,{cheaper than cables","They are slower than sound"],c:0

t:"Laser light can travel:",o:["Long distances without losing signal strength","Only}
,{short distances","Only in air","Only under water"],c:0

t:"Compact discs are:",o:["Read by lasers","Read by magnets","Read by}
,{cameras","Read by microphones"],c:0

t:"In medicine, laser beams can treat damaged tissue:",o:["In a fraction of a second}
without harming healthy tissue","Slowly and with much damage","Only in hours","Only
,{on the skin surface"],c:0

t:"Lasers can be used in very precise:",o:["Eye operations","Foot}
,{operations","Haircuts","Bone fractures"],c:0

t:"In the arts, lasers can provide:",o:["Fantastic displays of light","Heavy}
,{sounds","Strong smells","New paints"],c:0

t:"Pop concerts are often accompanied by:",o:["Laser displays","Fireworks only","No}
,{lights","Only candles"],c:0

t:"In engineering, lasers can cut:",o:["Complex shapes in materials from plastics to}
,{steel","Only simple shapes","Only wood","Only glass"],c:0

t:"Lasers can be used for information:",o:["Recording and reading","Cooking and}
,{cooling","Cleaning and painting","Mixing and freezing"],c:0

t:"In communications, lasers can:",o:["Send information over large distances with low loss","Only send information a few meters","Only work inside cables","Only work in ,{water"]],c:0

t:"Laser light is used in underwater communication networks because:",o:["It can} carry many channels and travel far","It is heavier than water","It is noisy","It is cheap to ,{drink"],c:0

t:"In medicine, lasers are used for:",o:["Cancer diagnosis and treatment","Cooking} ,{food","Cleaning clothes","Fixing cars"],c:0

t:"Lasers can be used for:",o:["Hair removal and tattoo removal","Growing} ,{hair","Painting tattoos","Making clothes"],c:0

t:"In arts and design, lasers can be used for:",o:["Light displays, wood carvings and} ,{jewelry","Cooking food","Building roads","Growing plants"],c:0

/* ===== MATERIALS & CLASSIFICATION – 15 (4 ===== */

,{t:"A diesel boat is an example of:",o:["Uses","Is made of","Contains","None"],c:0}

,{t:"A gas burner is an example of:",o:["Uses","Is made of","Contains","None"],c:0}

,{t:"A spring balance is an example of:",o:["Uses","Is made of","Contains","None"],c:0}

,{t:"A circuit board is an example of:",o:["Uses","Is made of","Contains","None"],c:0}

,{t:"A ball bearing is an example of:",o:["Uses","Is made of","Contains","None"],c:0}

,{t:"Roller bearings are an example of:",o:["Uses","Is made of","Contains","None"],c:0}

,{t:"Carbon blocks belong to:",o:["Is made of","Uses","Contains","None"],c:0}

,{t:"A plastic tube belongs to:",o:["Is made of","Uses","Contains","None"],c:0}

,{t:"A plastic pipe belongs to:",o:["Is made of","Uses","Contains","None"],c:0}

,{t:"A concrete beam belongs to:",o:["Is made of","Uses","Contains","None"],c:0}

,{t:"Aluminum alloy belongs to:",o:["Contains","Uses","Is made of","None"],c:0}

,{t:"Magnesium alloy belongs to:",o:["Contains","Uses","Is made of","None"],c:0}

t:"Steel sheets are likely to:",o:["Be made of steel","Be made of plastic","Contain} ,{wood","Contain water"],c:0

,{t:"A power tool is an example of:",o:["Uses","Contains","Is made of","None"],c:0}

t:"A plastic pipe is usually:",o:["Made of plastic","Made of steel","Made of} ,{concrete","Made of wood"],c:0

/* ===== COMPOUND NOUNS – 10 (5 ===== */

t:"A foot pump is:",o:["A pump which is operated by foot","A pump which pumps}
,{feet","A pump which is like a foot","A pump for measuring feet"],c:0

t:"A ribbon cable is:",o:["A cable which is like a ribbon","A cable which pumps}
,{ribbons","A ribbon which is like a cable","A cable for cutting ribbons"],c:0

t:"A gear lever is:",o:["A lever for operating gears","A gear for operating levers","A}
,{lever made of gears","A lever which is like a gear"],c:0

t:"A chain wheel is:",o:["A chain for operating wheel","A wheel for eating chains","A}
,{chain made of wheels","A wheel which is like a chain"],c:0

t:"A disc wheel is:",o:["A wheel which is like a disc","A disc which is like a wheel","A}
,{wheel for cutting discs","A disc for operating wheels"],c:0

t:"A foot brake is:",o:["A brake which is operated by foot","A brake which stops}
,{feet","A foot which is like a brake","A brake for measuring feet"],c:0

t:"A hand throttle is:",o:["A throttle which is operated by hand","A hand which is like a}
,{throttle","A throttle for measuring hands","A throttle for cutting hands"],c:0

t:"A strain gauge is:",o:["A gauge for measuring strain","A strain for measuring}
,{gauges","A gauge which is like a strain","A gauge for measuring speed"],c:0

t:"A college lecturer is:",o:["A lecturer who gives lectures in a college","A college}
,{which teaches lecturers","A lecturer who builds colleges","A student in a college"],c:0

t:"A safety helmet is:",o:["A helmet for safety","A helmet for decoration only","A}
,{helmet for cooking","A helmet for music"],c:0

/* ===== PROCESSES & SEQUENCING – 10 (6 ===== */

t:"First, in the washing machine process:",o:["The drum is filled with water","Soap is}
,{added","Dirty water is pumped out","The drum is rotated fast"],c:0

t:"After the drum is filled with water:",o:["The water is heated to the right}
temperature","The clothes are removed","The drum is rotated fast","Dirty water is
,{pumped out"],c:0

t:"After the water is heated:",o:["Soap is added","The drum is emptied","The clothes}
,{are removed","The drum is rotated fast"],c:0

t:"After soap is added:",o:["The drum is rotated slowly","The drum is rotated}
,{fast","The clothes are removed","The water is heated again"],c:0

t:"After the drum is rotated slowly:",o:["The dirty water is pumped out","Clean water is added","The clothes are removed","Soap is added again"],c:0

t:"After the dirty water is pumped out:",o:["Clean water is added","The clothes are removed","The drum is filled again","Soap is added"],c:0

t:"After clean water is added:",o:["The drum is rotated much faster and the water pumped out","The drum is rotated slowly","The clothes are removed immediately","Soap is added again"],c:0

t:"Finally, in the washing machine process:",o:["The clean clothes are removed","Soap is added","The drum is filled","Dirty water is pumped out"],c:0

,t:"Which word can replace numbers to show order?",o:["Sequence words like first","then, next, after that, finally","Random words","Only numbers","Only colors"],c:0

t:"When we write about a process, we must:",o:["Sequence and locate stages and describe what happens","Only write the final result","Ignore the order","Write without structure"],c:0

:[

}(function shuffle(arr

}(-for(let i=arr.length-1;i>0;i

;((const j=Math.floor(Math.random())*(i+1

;[[arr[i],arr[j]]=[arr[j],arr[i]

{

;return arr

{

;("const quizContainer = document.getElementById("quiz

,let score = 0

;let answeredCount = 0

;const totalQs = questions.length

} <= (questions.forEach((q, i

;("const qDiv = document.createElement("div

```
;"qDiv.className = "q
;qDiv.id = "q-container-" + i

;("const title = document.createElement("div
;"title.className = "qtitle
;title.textContent = (i + 1) + ". " + q.t
;(qDiv.appendChild(title

;("const optionsDiv = document.createElement("div
;"optionsDiv.className = "options

// خلط فهارس الخيارات
;[const optionIndices = [0, 1, 2, 3
;(shuffle(optionIndices

} <= optionIndices.forEach(idx
;("const label = document.createElement("label
;("const radio = document.createElement("input
;"radio.type = "radio
;radio.name = "q" + i
;radio.value = idx

} ()radio.onclick = function
;if(qDiv.dataset.answered) return
;"qDiv.dataset.answered = "true
;++answeredCount
```

```

;(const feedback = document.getElementById("f" + i
} (if(parseInt(radio.value) === q.c
;++score
;"qDiv.classList.add("correct
;"<feedback.innerHTML = "<span class='correctText'>✓ Correct!</span
} else {
;"qDiv.classList.add("wrong
:feedback.innerHTML = `<span class='wrongText'>✗ Wrong – Correct
;`<q.o[q.c]}</span}$
{
;(qDiv.querySelectorAll("input").forEach(inp => inp.disabled = true
;{

;)(label.appendChild(radio
;((label.appendChild(document.createTextNode(" " + q.o[idx
;)(optionsDiv.appendChild(label
;(){

;)(qDiv.appendChild(optionsDiv
;("const fb = document.createElement("div
;"fb.className = "feedback
;fb.id = "f" + i
;)(qDiv.appendChild(fb
;

;)(quizContainer.appendChild(qDiv
;(){

// برمجة زر النتيجة

```

```

} ()document.getElementById("scoreBtn").onclick = function
;("const resultBox = document.getElementById("finalResultBox
;(const percentage = Math.round((score / totalQs) * 100
;"resultBox.style.display = "block
;"" = let msg
;"🏆 !if(percentage >= 90) msg = "Excellent! You are an expert
;"⭐ !else if(percentage >= 70) msg = "Great job! Keep it up
;"👍 !else if(percentage >= 50) msg = "Good effort, but needs more study
;"📚 .else msg = "You should review the material again
` = resultBox.innerHTML

<h2 style="color: #1e3c72; margin: 0 0 15px;">Your Final Result</h2>
/ {div style="font-size: 50px; font-weight: bold; color: #2a5298;">${score}
<totalQs}</div>$

<div style="font-size: 24px; margin: 10px 0;">Grade: ${percentage}%</div>
<p style="font-size: 18px; color: #555;">${msg}</p>

{p style="font-size: 14px; color: #888;">Answered ${answeredCount} of ${totalQs}
<questions>
;
;

;{{ 'resultBox.scrollIntoView({ behavior: 'smooth', block: 'center
;{
<script/>

<body/>
<html/>
```