

```

<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: fadeIn 0.6s ease

                                {

;keyframes fadeIn { 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></p>
    ;`

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

<body/>

<html/>

```